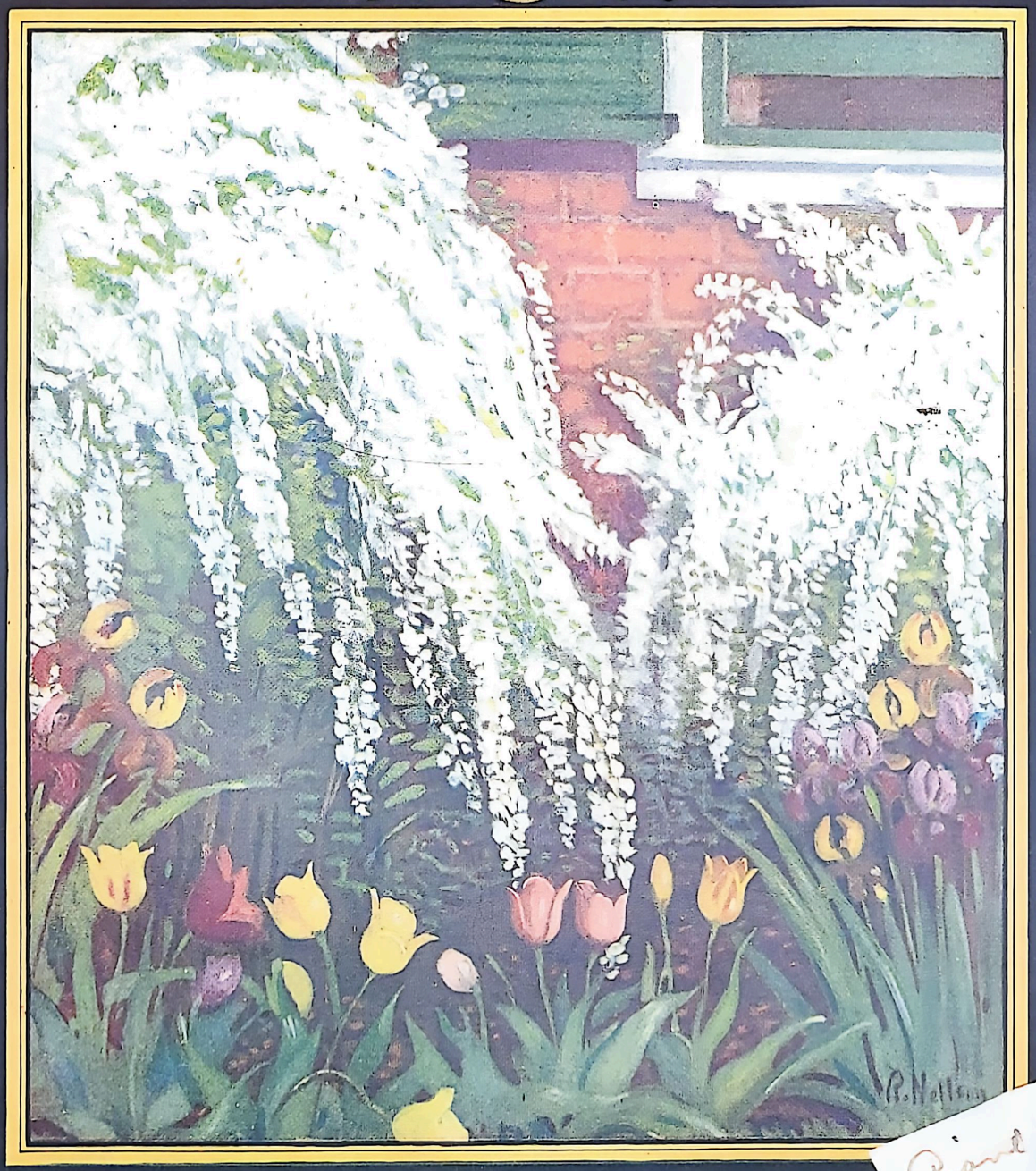
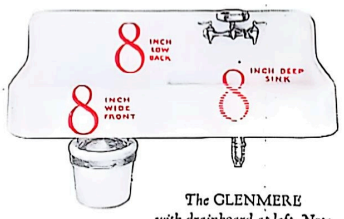
BETTER HOMES & GARDENS



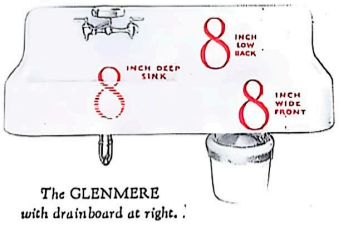
More than 1,000,000 circulatio

MAY · · 1928 ★ 10 CENTS

The "Standard" "Three 8's" Sink *Acid-Resisting*

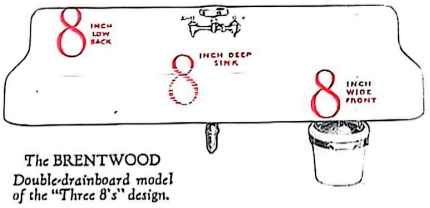


The GLENMERE
with drainboard at left. Note the "Three 8's" dimensions.



The GLENMERE
with drainboard at right.

Sparkling . . . through all tomorrows!



The BRENTWOOD
Double-drainboard model of the "Three 8's" design.

From breakfast hour until the dinner dishes are washed at night, your kitchen sink is on duty. The most used fixture, it is also the first thing your friends see when they come into your kitchen. Does it present an unchanging picture of glistening cleanliness? Or is it stained and dirt-grained?

The new "Three 8's" sink keeps its bright beauty. Dirt particles cannot become pitted in its hard, glass-smooth enamel. Minerals in the water, cleansers, even fruit and vegetable juices cannot roughen or discolor it. The enamel is Acid-Resisting Enamel—an exclusive "Standard" development. No need to scour it. Just a swish of a damp cloth keeps it spotless.

Visit a "Standard" Showroom to see this most modern sink—with 8-inch low back that fits under a deep, cheerful window and 8-inch deep sink compartment—deeper by 2 inches. It is made in several styles and sizes and in seven beautiful colors, as well as white. The price for the 60-inch long Brentwood in white, complete with trap, faucet and vitreous china garbage container, is $155.00, not including cost of installation. Other sinks as low as $40.85.

Be sure to specify Acid-Resisting Enamel, as many other "Standard" models are also made in regular enamel. The trademark "Standard" A-R, identifying Acid-Resisting Enamel, is impressed in every "Three 8's" sink. Write for the interesting book, "Standard" Plumbing Fixtures for the Home.

Standard Sanitary Mfg. Co.
PITTSBURGH

This hand-wrought faucet of beautiful octagonal design, with swinging spout, is finished in Chromard, a metal finish which has the sheen of platinum and cannot tarnish or corrode.

The directly attached garbage container of vitreous china with removable aluminum receptacle. Can be pushed back under sink on a folding bracket.

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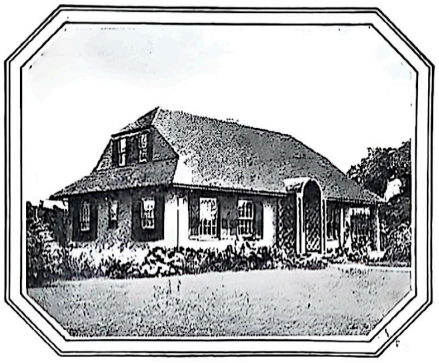

BETTER HOMES & GARDENS

DES MOINES, IOWA

Vol. 6. No. 9. *May, 1928*

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Rule-of-Thumb or Scientific Paint?

The Better Paints Contain Substantial Proportions of Zinc Pigments

In the early days the available paints were imported, costly, and too often unreliable. They were made of the same materials and by the same rule-of-thumb methods as in medieval times.

Permanently white paints, and tinted paints that hold their color, were not available for house painting in those days. The truly white zinc pigments—zinc oxide and lithopone—which today make such paints possible, were commercially unknown.

The advent of these zinc pigments accelerated the progress of paint making, and chemists in up-to-date laboratories have skillfully combined substantial proportions of these zinc pigments with the proper oils and driers to give superlative results.

When the exterior of this beautiful, modern Inn of Colonial architecture was painted, its extensive area necessitated the use of paint which would assure beauty, hiding power, and durability for the longest time at the lowest cost.

A thorough investigation of modern exterior paints led to the selection of one containing large amounts of zinc pigments.

The interior, too, is finished with paints containing high percentages of zinc pigments. Finishes of this character are washable, and give the bright, clean, enduring tints necessary for lasting beauty and harmony.

You can profit by these scientific facts for any type of home by specifying paints containing substantial proportions of zinc pigments.

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I am interested in better paints. You may send me the full story of the value of zinc pigments in paint.
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Along the Garden Path

J. K. lived in a modern city apartment, blest with a prim court between the wings, where little boys may not play, and a cement walk in front. On his fifth birthday his father gave him a sturdy cowboy suit. He surveyed the effect in the mirror and then looked around for cows and ponies. There were none in the apartment. Perhaps there might be some in the court. No, the janitor was there, on guard against five-year-olds. Oh-oh! How about the street?

He must be a cowboy, at all hazards, so he went out on the cement walk and appraised the situation. The prospects were good. But he still lacked a cow and a pony. Well, his tricycle would do for a pony, and his sister's doll carriage would make a most adequate cow. Fine! So J. K. hunted up his skipping-rope for a lariat, and started out on his adventure. He began to live over again the sights he had seen on a ranch just a few months before.

A police officer with a mistaken and clumsy sense of sociability saw the boy and started to chaff him. "Cowboys don't ride tricycles," he told J. K. "They don't rope doll carriages with skipping-ropes. They ride real ponies and catch steers with the long ropes."

Something was shattered just then, as when a vase is dashed to the ground. J. K. looked at the policeman for a long minute, and then ran, with choked breath, to his mother. There was a wound in his heart that will not be healed in fifty years. No one knows the impact upon a little child's life when a queer, tender little illusion of his dream-world is ruthlessly destroyed. It is as tho his face were slapped.

The cowboy suit was laid away, and a brave little creative impulse in the boy's heart was stilled. The cement walk had ceased to be the broad prairie, peopled by gay cowboys, Indians and galloping herds. It was only prosaic cement again. And there was no free space of grass and sunshine near at hand to cure his hunger.

Somewhere the garden path leads to pleasant playgrounds, where children may build air-castles, chase imaginary steers, shout bravely to the brotherhood of the broad horizons, where there are lands peopled with romantic tribes. It is the people beyond the horizon that put the sparkle into a boy's eyes.

MODERN youth is no worse than the youth of other periods of the world's history. An eminent sociologist convinced me of this not long ago. Because his logic is fortified by substantial facts and his analysis conducted in dispassionate manner, I agree with him.

Nevertheless, modern youth has its false friends. These false friends amplify their statement thus:

"Young people today are no worse than young people of other days. They are more frank. They have a fine sense of freedom. They object to repression. They are in revolt only against the prudish restraint of their old-fogey parents. If they seem to be curious about dangerous projects, let them find out for themselves."

In this statement, which is typical of an element that should be more carefulmouthed, one may see a remarkable hodge-podge of truth, sophistry, error, psycho-analysis, fairness, justice, platitude and anarchy.

"Repression," according to some of the modern psycho-analysts, is nothing but our old friend conscience under a camouflage. Call it self-discipline, if you like—the word "inhibition" is also used indiscriminately in this connection. New definitions are given to old words, causing endless confusion. Wherefore these false friends of modern youth are being understood as advising the abandonment of conscience and self-discipline. "Don't refrain from sins or vices—that self-restraint will hurt you! Follow your impulses wherever they may lead!" This is the way their advice is taken. They may not mean just that, but their careless use of words, which in these days are given new meanings, is fraught with direful possibilities.

The revolt that is actually of concern to those who care to stop and analyze the problem, is not essentially a revolt of youth. It is not a revolt against old-fogey parents. It is a revolt against law. It is rebellion against the discipline of the moral standards of society, and against conscience. Youth does not have a monopoly on this revolt, by any means. In fact it seems sometimes that people of mature age are leading it.

In a day when crime is the great national problem, it would seem that these false friends should be checking up on their definitions and rearranging their logic, for they are playing with social dynamite.

THIS is the most gorgeous season of the family's outdoor life, for most of the people of the United States.

It is in May that the birds are most vocal and the wild flowers are most appealing. It is in May that we realize most poignantly the close relationship between the beauty of wild nature and the beauty of the cultivated garden.

As the years pass there is a growing realization of the fact that wild nature is the most original and the best teacher in gardening. Growing out of this realization we see a great increase in the movement to preserve wild flowers, set aside preserves of wild life and guard primitive beauties against the artificialities of civilization. Witness the tremendous popularity of lily pools and rock gardens. Witness the movement to make home architecture more intimately a part of the general landscape.

J. K. needs a place to play. J. K. is a boy with imagination and initiative. He has the creative impulse. He is a social being. It is usually true that the best home and family man makes the best community builder; the best community builder makes the best patriot, and the best patriot makes the best world citizen.—Editor.

ATMOSPHERE

Dr. Roy L. Smith

LIFE'S mightiest forces are the intangibles. Engineers lay out a town, but the people who live in it create its "spirit." The quarter-master's corps feeds an army, but its "morale" is a spiritual something which comes out of the hearts of the men. Carpenters build a house, but the home-makers themselves provide its atmosphere, which does more to make it a home than the furniture or the house itself.

Occasionally I visit a house in our town that is beautifully furnished—expensive rugs cover the floors, exquisite etchings and paintings adorn the walls, and every piece of furniture has been chosen to please the eye of a sensitive artist.

The place lacks nothing but atmosphere!

There is an air about that home as clean and cold as the steel engravings that hang on the bedroom walls. I grow lonesome for the sight of a little ragged doll sprawled out somewhere in the middle of one of those big rugs, or a boy's school books thrown down helter-skelter on the broad window seat.

Atmosphere is a spiritual something—a blending of kindliness, patience, good humor, love, faith, optimism and self-forgetfulness. Creating an air of cheerfulness and contentment about a home is as fine a bit of artistry as knowing how to combine colors to get the right effects.

Blessed is the home that has a real "home atmosphere."

ACTUAL VISITS TO
P & G HOMES
No. 15

"Here's something new," thought Bobby ... and *another* romper was ready for the wash *!*

Not so long ago in a quiet Ohio town we found a dear little house with such perky pink geraniums in the window boxes and such ruffly curtains upstairs and down that we decided to ask our questions about soap at *that* house first.

"Laundry soap?" echoed the pretty young woman who welcomed us. "I use P and G. You see I have a very little boy who is *very* hard on rompers."

"Is he at the crawling age?" we inquired.

"Much worse," she smiled with a little shake of her head. "He's four years old and into everything. While I'm baking he'll tip the jam on his clothes, or when I come from the telephone, I find he's been playing with ashes from the fireplace. I wash rompers every day to keep up with him."

"Why do you like P and G?" we asked.

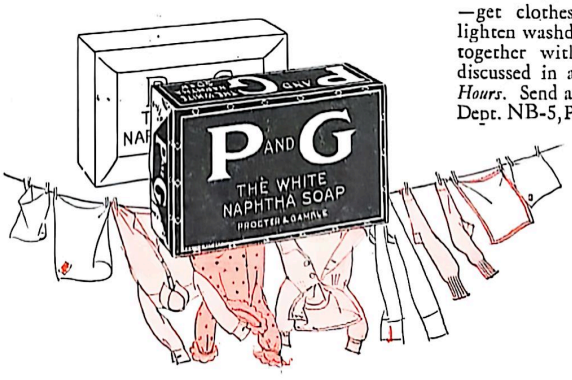
"First of all," she said, "I don't have to bother if the water isn't hot because P and G and cold water will get even Bobby's rompers clean. I'm rather fussy about keeping my own clothes nice too —and I find that P and G doesn't fade the colors. It is so nice and firm that it doesn't waste away and it really is better than other soaps I've tried."

It *is* such a good soap—have you wondered perhaps why you pay so little for P and G?

The reason is: More women use P and G than use any other soap in the world. This unequalled popularity means that P and G is made in enormous quantities. And since large-scale manufacture costs less in proportion than small-scale manufacture, a very large cake of P and G can be sold to you for actually less than even ordinary soaps.

So—P and G costs less *because* it is so popular. And it is so popular because *it really is a better soap.*

PROCTER & GAMBLE



Free! "How to take out 15 common stains —get clothes clean in lukewarm water— lighten washday labor." Problems like these, together with newest laundry *methods*, are discussed in a free booklet, *Rescuing Precious Hours*. Send a post card to Winifred S. Carter, Dept. NB-5, P. O. Box 1801, Cincinnati, Ohio.

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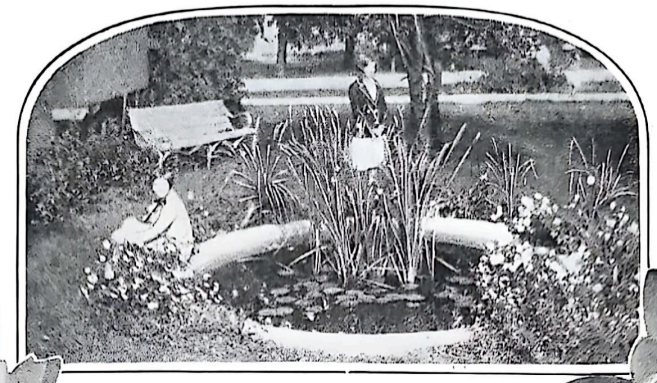
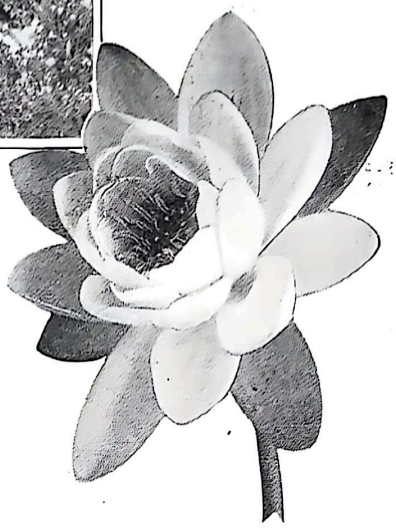
The largest-selling soap in the world



Mrs. Eva Miller, of Winneconne, Wisconsin, designed the charming pool at center

The lilies at bottom of the page are deep, rich blue, large and very striking. They are the Pennsylvania

"A dreaming lily half awake." At right it has burst into full bloom



Planting the Lily Pool

VICTOR H. RIES
Ohio State University

WATER always holds a universal appeal to people the world over. We go to the seashore, to the lakes, to the rivers, and to the streams so that we may enjoy to full advantage water in its many forms. Just so we find that even a small pool of water or a little trickling stream in our own garden will immediately give us an interest and a satisfaction that few other things will. There is no yard so small, no garden so simple, no pocketbook so meager that water in some form may not be included.

We find the Italians in their magnificent formal gardens appreciate the value of this feature full well so that they seldom neglect to use it not only once but often many times in each garden. We find that the Japanese in their marvelous and artistic gardens also feel its necessity. Surely we can do no better than to follow the examples of these two nations admittedly superior in gardening and include in our American gardens some of these enchanting water features.

Our American gardens must generally, of necessity, be different from the European and Oriental gardens and so also must our treatment of the water necessarily be somewhat different. This treatment will depend to a large extent on the nature of our garden and, of course, somewhat on our own nature, since our own individual and personal tastes should always be considered. There are many people so informal in their characters and in their lives, so informal in the treatment and decoration of their homes that anything stiff or formal in their gardens would be incongruous. And again, there are many homes and gardens so precise, so formal that a natural or informal pool would be very much out of place and so we find we must decide on the type of pool that would be best adapted to our own individual conditions.

The variety of forms in which pools

may be made should all be considered before we attempt to plan our own. It is interesting to visit all the various aquatic gardens, not only among our friends but among all the garden lovers of our home town, for after all there are few real garden enthusiasts who are not more than glad to show off their collection of flowers, shrubs, and other interesting materials.

In any garden the pool must necessarily fit in with the style of the part of the garden it is in so that if our yard be formal in its treatment the pool that is best in that yard must necessarily be of the same nature unless we have another part of the yard screened off from the rest as a delightful naturalistic retreat. Those of you who had an opportunity to attend the National Flower Show at Detroit a year ago will remember one of the gardens with its charming formal octagonal layout. In back of this, thoroly screened from it, was a most enticing woodland walk with a brook, stepping stones, and little log footbridges.

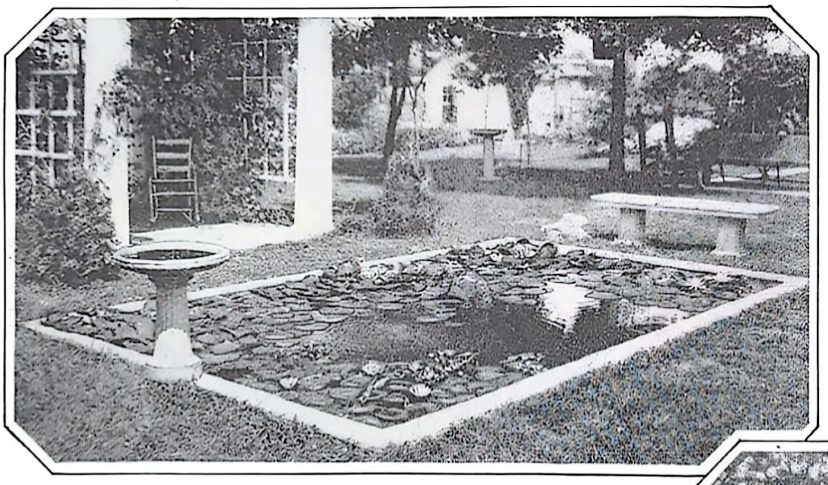
The formal pool should be of artistic interest in the garden in which it is used and as such should be placed in one of the more conspicuous places and in line with the main view thru the garden. It, of course, should be geometrically perfect and absolutely finished so that nothing will appear rough or informal. The planting around it, if any, should be balanced and symmetrical. If these fundamental principles are carried out it is easy to construct it so that it does not become an eyesore.

The informal pool, however, is always the most enticing, the most alluring, and has in it, if it is properly planned and executed, the power to transport one from the close bounds of the small garden out into the wilds of nature. This type of pool demands a most carefully planned setting, a studied informality and apparent carelessness. The garden owner who can accomplish this can well proclaim to the world that he has captured Mother Nature and has her existing in his own garden.

CONSIDER how much of the beauty and attraction of any natural pool you may know and admire is due to the water and how much is due to the setting and background. No pool however well executed or beautiful in itself will be satisfactory unless the planting around it is properly carried out. To go back to our little wild pool out in someone's pasture, we find that the plants growing in, around, and near it are typical of that sort of location, so much so that we unconsciously feel that the ground is wet when we see sedges, marsh marigolds, cattails, and other plants growing wild. In other words they give the feeling and impression of moist places and streams. Just so I always like to feel that the plants around any pool are such as would be growing in nature near water.

In nature near this water we would find such shrubs as the indigobush, the buttonbush, the spicebush, the sweet pepperbush, the white fringe, the leatherwood, the shrubby cinquefoil, the elderberry, the huckleberry, the willows, and the meadowsweet spirea. All of these which thrive in dry as well as wet soil tend to give the impression of moisture. Of course, a few of these like the huckleberry demand an acid soil and may be difficult to grow in some situations, but we should include a few of the above relatively close to the pool.

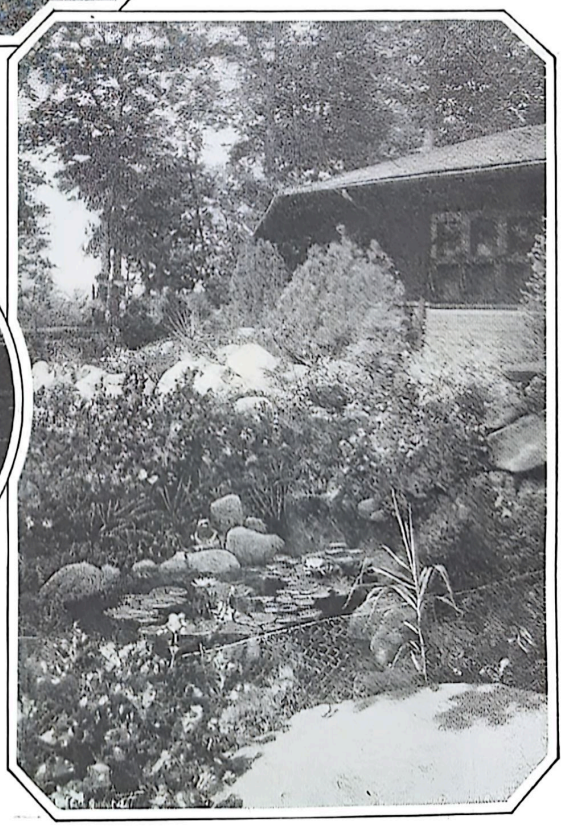
There are many perennial plants that we find growing in wet places which will also thrive in the garden. Besides these there are some flowers that altho they are dry ground plants, give the appearance and feeling of moisture. The iris in all its varieties, but particularly the Siberian, will give somewhat this impression and carry out this idea. The cardinal flowers so often found in



This formal pool is found in the garden of R. H. Reeves, Arthur, Illinois

C. D. Velie's estate on Lake Minnetonka, Minnesota, is famous for its lovely rock gardens. A section of his pool is pictured below

You will be delighted with the George Huster night blooming water lily. It is a brilliant crimson, free blooming and fairly large. The price is reasonable



wet ground, the sneezeweed with its fragrant yellow flowers, the Joe-Pye-weed with its large leaves and light purple flowers and its sister plant the boneset, due to their native affection for swampy places would even make a dry desert appear wet. The cinnamon fern, the royal fern, the Turk's cap lily, and the turtlehead are of the same nature. Four of our native plants found so commonly along streams, the false-dragonhead, the loosestrife, the marshmallow, and the Canadian goldenrod likewise suggest moisture.

All of the grasses and all of the sedges, of course, carry out this marshy feeling. The giant blue lobelia, the wild gold-englow, and the forget-me-not are other forms well worth including in this group. Of course, to fill out the blooming season we will have to include forms blooming from early spring to late fall, so to fill out the above list of perennials we must use some of those most interesting and important group plants, the annual flowers.

JUST to mention a few annuals that will work in well around the pool: the Chinese forget-me-not, the ageratum, the thunbergia, the emilia, the California poppy, the annual gaillardia, the verbena, the cornflower.

In the informal or naturalistic pool one of the important factors is to have the concrete margin of the pool completely hidden. This means that it either must be covered up with plants or some natural informal stone work. If the margin of this pool can appear to be one that would occur in nature, the more enjoyable and artistic will be the result.

There are a number of plants besides the grasses which may be used for growing out over the edge and even hanging into the water. One particularly fine one for this purpose, altho care must be used so that it does not escape into the beds because of its weedy nature, is the moneywort, with its bright yellow flowers. The forget-me-not, the dwarf veronica, the rockrose, the snow in summer, and the alyssum will soon make themselves at home around the pool. Even the myrtle and pachysandra may be used to give an appealing winter effect with their evergreen foliage.

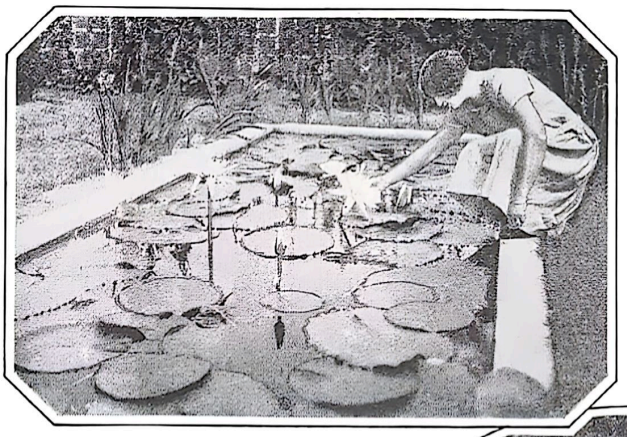
For more permanent winter effects we may work in a few evergreens, altho if used in any quantity they make the entire planting altogether too somber and heavy. The yucca is always good, and absolutely certain. For the informal pool the Pfitzer juniper may be used near large pools, but better still are the Sargent juniper, the Waukegan juniper, the Savin juniper, and others of this nature. Canadian yew may hang down from a rocky ledge overhanging the water, or a few American hemlocks may be used as a background for the rock garden along one side.

ON the other hand around formal pools we should use a more compact and symmetrical type of evergreen such as Mughopine, Globe arborvitae, pyramidal arborvitae, Oriental arborvitae. These are relatively slow growing for it is easily seen that coarse, fast growing forms like Norway spruce, Austrian pine, and the like would soon be all out of proportion.

One difficulty in some sections of the country is that our aquatic plants like water lilies demand sunshine so the pool itself must always be in the sun, but a few small trees like dogwood or redbud may serve as shade for the surrounding rock or wild garden. Willows altho ideal are entirely too large and vigorous for the average yard as they soon completely overshadow and dwarf the pool. The smaller the plants around it, the larger the pool will appear to be.

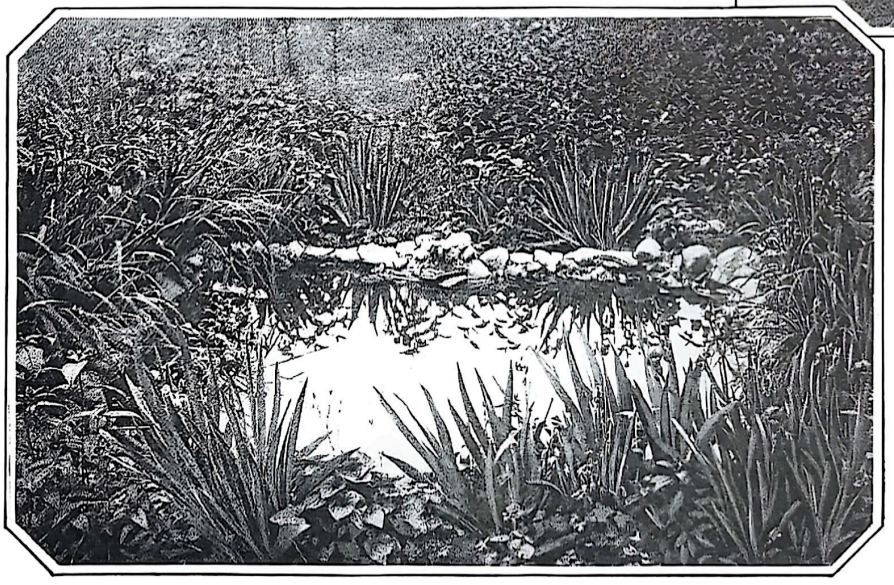
On the other hand these plants should never be planted clear around the pool for there should be at least one or two spots where one may step right up to the edge of the water. Just as when you were a youngster running thru the fields and woods you wanted to be able to go right up to the edge of the stream or pond, just so every normal person feels the desire to step right up to the edge of the pool and look down into it.

For those of you who live in a section of the country where there are bogs, swamps, and marshes there may be a strong desire to imitate this in connection (*Continued on page 126*



Above is pictured the formal pool in the garden of K. H. Knisely, Elkhart, Indiana. Contrast this with the informal pool below which was planned by Fred C. Wegner, Lakewood, Ohio. The pools are vastly different but each is pleasing

Much of the beauty of the water garden depends upon the background planting. The pool at right is a gem in a lovely setting

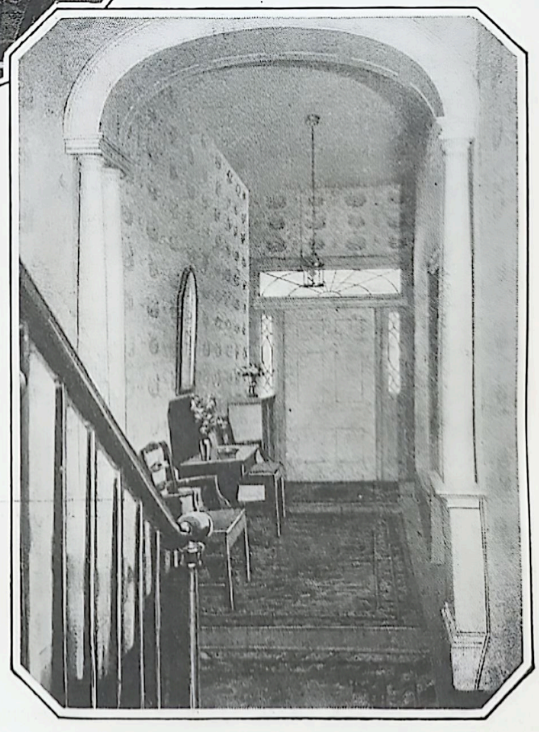


Homes of Outstanding American Women

Miss Belle Sherwin, President of the League of Women Voters

FRANCES PARKINSON KEYES

Miss Belle Sherwin

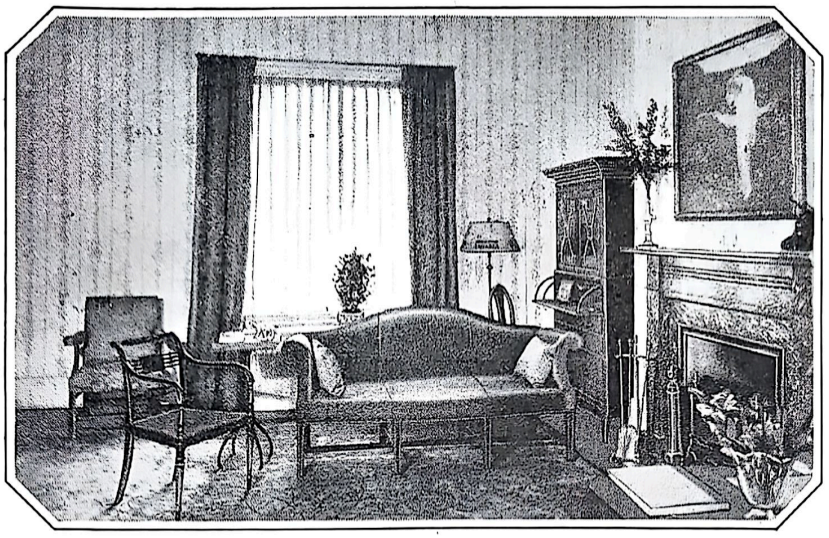


In the circle, a quaint old desk with secret drawers. Below, the dignified entrance hall

I LIKE to plant and prune and foster and tend and improve. I like to do it in a garden and I like to do it in an organization." This is the way Miss Belle Sherwin, one of the ablest administrators in the country, defines her tastes; and she has had ample scope to gratify them, for her record in both organization work and gardening is of unusual extent. She is a trustee of Wellesley College, from which she was graduated; she is a member of the College Club and the Women's City Club of Cleveland, the Cosmopolitan Club of New York, the Penguin Club and the American Association of University Women of Washington, D. C. She was a charter member of the Consumers' League of Ohio, a member of the Distributing Committee of the Cleveland Foundation, and for a long time the only woman on it. She was a director of the Public Health Nursing Association six years, and of the Cleveland Welfare Federation eleven.

She devoted the war years entirely to patriotic service, acting first as Ohio chairman of the Women's Committee of National Defense and afterwards as chairman of the Women's Committee of the Mayor's Advisory War Board; and, while serving as chairman of the Cleveland League of Women Voters, she was elected national vice-president, and has since been elected and re-elected national president of this organization. Her love of "planting and pruning and fostering, tending and improving" has been apparent thru all this distinguished service, and the League of Women Voters has thrived like a healthy and beautiful plant under her wise and careful leadership. She has also had experience in a "rosebud garden of girls," for she taught at one time in Miss Hersey's School in Boston; and she is profoundly interested in adult education, believing that if education is to be really worthwhile it must be interwoven with everyday life. This, no doubt, is one of the reasons why the League of Women Voters, with its policy of political education, appealed to her so strongly from the very outset.

Her acquaintance with horticulture, and her love for it, began in her grandmother's garden in Cleveland—downtown Cleveland it is today, crowded with hotels and shops and office buildings—but Miss Sherwin still cherishes that scented spot, dear to her childhood, in affectionate memory. Later her interest centered around the garden at the beautiful farm near Cleveland, Ohio, which for many years was her home, and to which she still returns to spend her brief vacations—a garden which is justly famous as one of the "show places" of the middle west, and upon which Miss Sherwin and her sisters have lavished untold attention and affection. And now, tho the garden around the little house next door to the headquarters of the League of Women Voters in Washington—



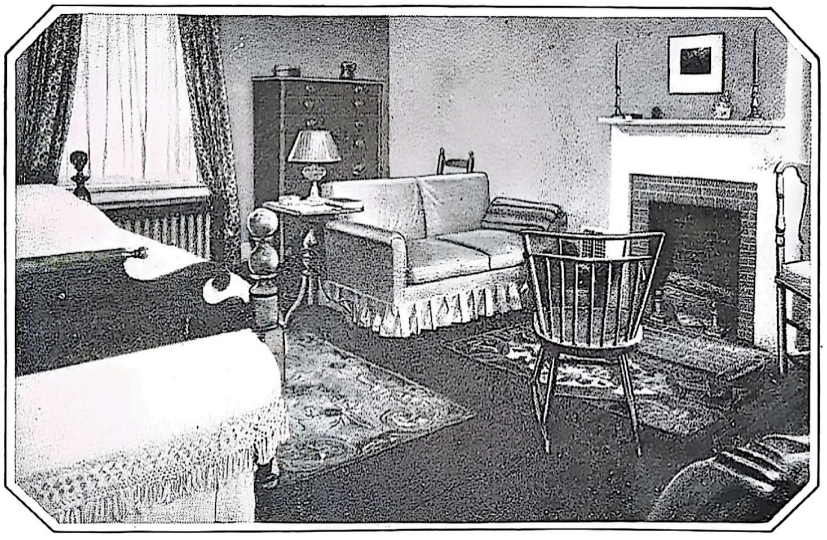
The drawing room reflects the spirit of hospitality

the little house which is Miss Sherwin's present home—consists only of "eighteen plants and an ivy vine," as she humorously puts it, her greatest joy and recreation consists in "planting and pruning and fostering, tending and improving" these.

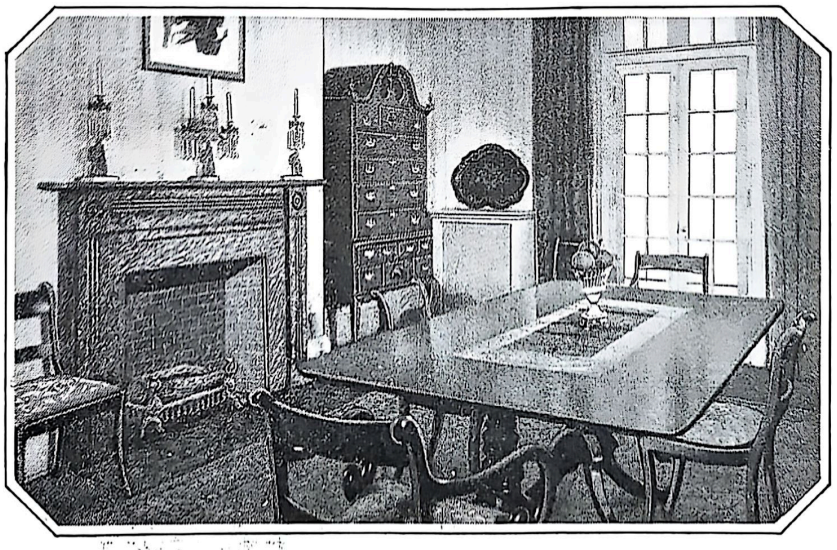
She told me this herself, as we sat drinking hot, fragrant tea together in front of the coal fire burning so brightly in the hob grate under the black marble mantel in her little drawing-room—a mantel surmounted by the picture of an exquisite figure clad in white draperies, representing spring.

IT was a frightful day outside, the worst of the season, but in the little drawing-room everything was peaceful and serene. The walls are covered with paper of French gray; there are long curtains of yellow brocade at the windows, an Indo-Persian rug of blue and yellow on the floor, brocade upholstered furniture of black, of blue and rose, an old-fashioned secretary in one corner containing books in rare bindings. It is a room exquisite in all its appointments, but it is even more than that: it is a room that gives a sense of space, of spotless cleanliness, of austere and gentle and consecrated living; the room of a woman whose taste, as she puts it, is "severe rather than frilly."

"What I mean is," Miss Sherwin elucidated, "not quite severe, perhaps, but—well, I never, never would have a fluted lamp-shade." And she glanced with satisfaction at the soft and simple lights about the room. "I like furniture that has good lines, furniture that means something, furniture that has been used. I love to think that little table near you at the end of the sofa, originally a work-table, as you will see if you look inside it, may have belonged to a very lovely lady long ago." Then as I exclaimed enthusiastically over a winged chair that stood near the mantel, a chair covered with black horsehair upon which branching flowers had been embroidered by hand, she told me that she had first seen it in the window of an antique shop, and had coveted it instantly, but that she had allowed herself to be persuaded by a friend to leave it there, because "she had no place to put it."



Gaily flowered hangings and rugs make this guest room charming



The dining room glows with its decorations of yellow

"But six months afterwards I went back and bought it," she continued triumphantly, "for I had a place. I had this house.

"When I first became president of the League of Women Voters, four years ago," she went on, "I tried living at a hotel. I had done this a great deal, inevitably, in the course of my war work and teaching; and I had always tried to make each rented room I occupied really my room, to give it touches of originality and homeliness which it would not possess if it were casually occupied by someone else. But suddenly I felt I couldn't stand hotel life any longer. However, of course I realized that I must be in Washington most of the time, near my national headquarters, and I began to search for some other solution of the necessary problem of a place to lay my head. Then I noticed this little old house—noticed it with interest. It belonged to the owners of the excellent 'Allies' Inn' next door, and they were renovating it preparatory to renting separate rooms and suites of rooms in it. I leased the second floor, which gave me three rooms, (*Continued on page 114*

An English style home with a lot of room for the money

A Compact Six-Room House

VORSE, KRAETSCH & KRAETSCH

Architects

HERE is a small house, with six good-sized rooms, the living room being especially large for a house of this size, as it should be, the modern mode of living requiring a living room of generous proportions.

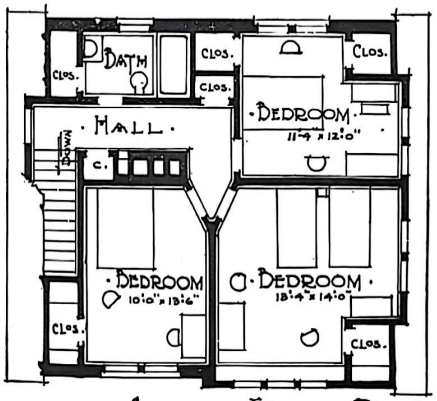
The kitchen will delight any woman who has a flair for efficiency. It is compact, yet ample, complete, and designed to save steps. It is completely equipped and has delightful glazed tile tables and drain boards.

The down stairs toilet room can be reached either from the living room or the service part of the house, which is a convenient feature not often found in a house of this size.

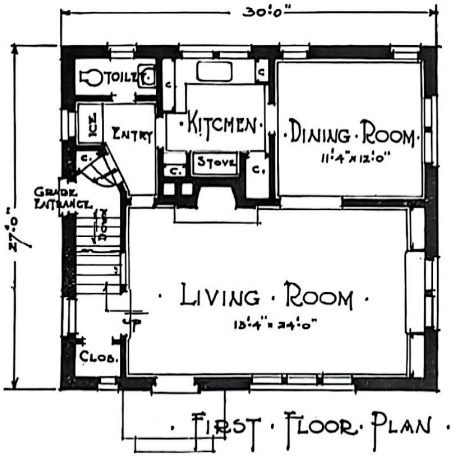
A large coat closet with a convenient mirror door, a large closet in the kitchen, and a broom closet in the entry are extra desirable features, all included in the first floor plan.

The second floor plan with its three good-sized bedrooms and numerous closets is compact and livable in all its arrangements.

The exterior built with a dark red brick or a dark common brick with dark brownish-black half timber work and stucco of rough texture, and with a roof of various shades of heavy shingles, will give an elevation of exceptionally pleasing appearance. This design is in the style of the best old English tradition. The owner of this house will be at home in any neighborhood, and will always experience the pride of owning a beauty spot.



· SECOND · FLOOR · PLAN ·



· FIRST · FLOOR · PLAN ·

ONE of the factors which families who plan to build sometimes fail to take into consideration is the appearance of the house when it is surrounded by other houses. A large lot or acreage, you know, requires a quite different type of building than does a fifty-foot lot, where other houses will rub elbows with your own. The design of this house is such that it will fit in neighborly fashion into almost any pleasant street.

Wall space in the bedrooms has been wisely planned to provide for all the major pieces of furniture, and to permit some shifting of these. The placing of the bath immediately above the kitchen and first-floor lavatory is the most economical possible.

This house, being square in plan and compact as to arrangement, is reasonable in cost of construction for the amount of room involved.

The new roof line completely changes the appearance of the exterior of the house

An Ugly Cottage Becomes A Charming Home

E. A. MARTINI
Consulting Architect, Better Homes and Gardens

ORIGINALLY it was a tiny four-room cottage located in a small suburb of a large city and occupied by a young married couple. It stood on an open prairie where only a few houses were scattered in the distance; not a tree or a shrub ventured within two hundred feet of the spot. You might have considered it a desolate home in a desolate location but the owners have transformed it into a real home set in a fairyland of flowers.

The cottage could have housed two or three persons comfortably but after two children arrived, the building exceeded its capacity. The owner, when inviting his friends, would say, "You will have to walk out backwards, there is no room to turn around," so cramped had the cottage become.

There was no basement and the only means of heating was by the use of stoves. The huge one in the living room, with its bulkiness, its radiating heat, and the ever ready coal scuttle occupied so much space that it scarcely left room for the children to play on wintry days, when outdoor conditions necessitated their presence indoors.

The logical move toward providing more space would have been to discard the stove. But where should it go? This question might be answered easily enough in summer, but to discard it in winter was an impossibility. The only place for it was in a basement which did not exist. There was nothing to do except build one. So the old clothes were mended and the money saved for a few longed-for luxuries was used to pay the first installment on the new basement. The house was raised a foot or two, the ground excavated below and masonry walls built to support the frame above. The chimney was also raised with the house and provided with a new footing. The new concrete walls and floor, and the steel windows produced a light airy basement. The furnace could stand here to its heart's content and not worry about someone's saying it was in the way.

This improvement helped the situation to a marked degree. It was no longer necessary to send the boys outdoors when they wished to play. But when the next baby arrived, the house was still too small. To help (*Continued on page 93*

A good, substantial house but lacking personality. The picture at the top of the page shows how the owners transformed it into a real home

The trees are kept trimmed to admit as much sunlight as possible

A Garden of Shade-Loving Plants

FAE HUTTENLOCHER

FIVE years ago I thought I could not have a flower garden because of the many fine old trees which grow on our city lot. I had always felt that trees and flowers could not possibly flourish together.

A friend, hearing my plaint, took me into her garden, showed me the beautiful effects which she had brought about in the shaded corners and suggested that I make a study of magazines, books and catalogs, to see what would grow in my woodland plot. I followed her advice with the happy result that my husband has kept his beloved trees and I have evolved my garden—a garden of plants and flowers that seem to enjoy living underneath the bough.

Drainage, we have found, is of greater importance in the shade than in the sun where there is more evaporation and stimulation of the soil. A flat, poorly drained area with hard-pan soil, however, can be remedied by spading the soil deeply and incorporating therein sand and humus, such as leaf mold, compost or well-rotted manure. Trees sap much vitality from the ground, consequently the garden under them should be enriched yearly. On very flat ground where water stands in pools after a heavy rain, the flower borders may be slightly raised and inconspicuously bound with rocks to hold back the soil of the garden from washing into the lawn area. If drainage is good this, of course, is not necessary.

Partially shaded situations may be brought about by location of buildings as well as by groups of large trees. Shrubs must be selected that will produce a foliage effect which serves as a background for lawn as well as partial screen to give privacy to the garden or to shut off the service yard and other areas. There is plant material entirely tolerant of a considerable amount of shade, and entire families of plants whose health and happiness depend upon protection from the sun.

IN the shade of large oak trees, the honeysuckles in my garden have flourished with clean, healthy foliage that seems never to have a pest, with flowers every year in May and lovely berries for the birds thru the summer. For a high dense growth in deep shade, it is well to plant honeysuckles in triangular form of threes, two in back, far enough apart and one in center front, rather than in straight rows. As they grow, the branches intermingle and make a boundary that is well nigh impenetrable. The Tatarian variety (*Lonicera tatarica*) is of upright growth, eight to ten feet high, producing pink flowers and red berries. *Lonicera morrowi* is broader, seldom exceeding five to six feet in height, being literally covered with white blossoms which are followed by orange berries.

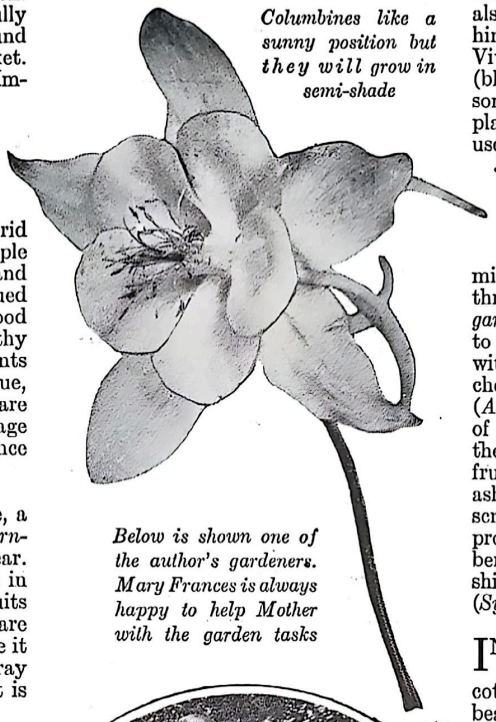
Under and around the honeysuckles, daffodils and narcissus we have planted *Scilla sibirica*, Heavenly Blue, snowdrops, chionodoxas and groups of our native *Hepatica triloba* in tints of pink, blue and white. These lovely spring plants produce their blossoms before the shrubs have become heavily foliaged.

Up against the foundation, under wide eavestroughs and in the shade of a large oak, the lovely old-fashioned flowering currant (*Ribes odoratum*) bravely puts forth its fragrant yellow blossoms in early spring. The blue crocus, Maximilian, the heavenly blue scillas, hepaticas and spring beauties bloom nicely under its arching branches. Our native bluebells (*Mertensia virginica*) would also be lovely combined with daffodils before this handsome spring shrub and would not object to the shade of its light spring foliage.

As a background for the wide flower border that is in semi-shade, the mock-orange (*Philadelphus coronarius*) is desirable. It can be had in many varieties differing in height, size of blossom and fragrance. The Lemoine hybrids of *Philadelphus microphyllus* such as Avalanche and Virginale are exquisitely fragrant but not so tall. In our garden an old *Philadelphus speciosissimus*, almost ten feet in height has three of the Lemoine lower hybrids grouped in front of it, relieving its stiff, leggy appearance. Running in under and around these shrubs are lilies of the valley and maidenhair fern, the clean dark green foliage making a good ground cover after the

fragrant bells are gone for the season.

The mockorange blooms faithfully every June and is lovely as a background for iris, columbine and sweet rocket. The yellow iris, Shekinah and Gold Imperial, are lovely before it with groups of the blue Rocky Mountain columbine (*Aquilegia caerulea*) and the yellow longspurred columbine (*Aquilegia chrysantha*) that seems so much hardier than most hybrid columbines. Mrs. Scott Elliott's hybrid columbines in pink, salmon, rose, purple and cream, all enjoy partial shade and are beautiful used with the various hued iris. The German iris give very good bloom in semi-shade and seem healthy if raised just a little above other plants for better drainage. Our native blue, white and yellow violets in variety are attractive as border plants, their foliage maintaining a clean, well kept appearance in the border thruout the summer.

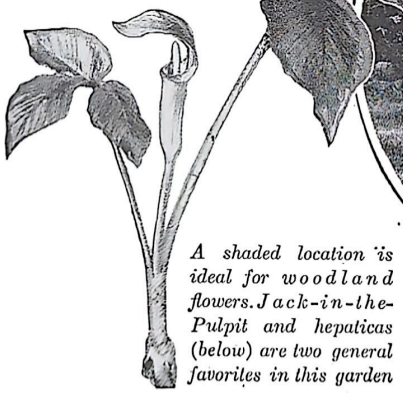


Columbines like a sunny position but they will grow in semi-shade

FARTHER on in quite dense shade, a group of highbush cranberry (*Viburnum opulus*) is a joy thruout the year. The fragrant white flowers that come in June, followed by the handsome fruits that remain on almost all winter and are then greedily eaten by the birds, make it well worth the trouble of a nicotine spray twice a year, for like all viburnums it is troubled with aphis.

In front of the viburnums, clusters of Siberian iris (Perry's blue is best), *Thalictrum purpureum* and the fragrant early lemon lily (*Hemerocallis flava*) bloom together nicely. Here also are groups of false dragonhead or hinge flower (*physostegia virginica*, Var. Vivid) and the perennial aster Climax (blue) and St. Egwin (pink); these blossoming in the fall of the year. For border planting, three varieties of sedum are used.

Below is shown one of the author's gardeners. Mary Frances is always happy to help Mother with the garden tasks



A shaded location is ideal for woodland flowers. Jack-in-the-Pulpit and hepaticas (below) are two general favorites in this garden

Just to break the line of shrubbery, a shrubby tree such as our native prickly ash (*Zanthoxylum americanum*) with its aromatic leaves and berries that are so colorful in the fall might be used. Below it a group of three coral berries (*Symphoricarpus vulgaris*) commonly and regretfully known to us as "buckbrush," will be content with the densest of shade. Our wild cherry, pin cherry and downy shadbush (*Amelanchier canadensis*) are also tolerant of shade and give charming blossom in the early spring landscape as well as fruits later in the season. The mountain ash (*Sorbus americana*) is tall enough to screen a garage or telephone pole and produces handsome clusters of orange berries even when it has very little sunshine. Below it a group of snowberries (*Symphoricarpus racemosus*) is effective.

IN front of this, a planting of Poet's narcissus, *Mertensia virginica*, and cottage tulips in old rose shades are beautiful. Perennial blue and pink asters with early yellow chrysanthemums give a pleasing touch of color in the fall along with the gay berries above them.

Various columbines and iris together with *Thalictrum purpureum*, *Thalictrum dipterocarpum* and the wild bleeding heart (*Dicentra eximia*) are used thruout the border where there is a ray of sunshine. In case one desires an evergreen or two in the garden for the sake of variety, the hemlock, balsam fir, red cedar and white pine seem to tolerate shade better than most varieties. In front of them and around them the soil is pretty sure to be quite acid from the needles that drop. This makes an ideal condition for a charming planting of large and small ferns, lady-slippers, Jack-in-the-pulpits, bloodroots, May apples, low woodsy meadowrue, Solomon's plume, Solomon's seal, giant blue lobelia and last of all a border planting of our native (*Continued on page 116*

Asparagus and Its Allies

Have You Tried Planting Vegetables in the Asparagus Bed?

M. G. KAINS

NOTHING in amateur vegetable gardening pays such big dividends in enjoyment and the saving of cash as does the asparagus bed; and no other investment in such gardening can be maintained with profit for such long periods.

When an amateur bed gives out in less than fifteen years it has done more poorly than many of the large commercial fields. These do not receive anything like the attention that the home planting can be given so the growers are not to be blamed. Many amateur beds still yield well tho twenty to thirty years old. I know one which was forty years old and still going strong when last I saw it!

The popular notion that the land is more valuable for other crops is confuted by countless home garden beds where not only finer asparagus than can be bought in the stores or markets is cut every spring and at less cost, but where the beds are properly made and managed quantities of other vegetables may be grown at the same time and in the same area instead of being placed on a different one. Thus a saving of space may be effected and an equal area might better be devoted to other vegetables. This statement leads to the main theme of this article, namely, asparagus and the crops that may be grown together without detriment to either.

MANY persons think that an asparagus bed large enough to supply the family table, occupies an extravagant amount of the limited space in a suburban garden. This is not the case, however, where the bed is prepared and managed as described below. Quite the contrary, it may be made to save the same amount of space for early crops that would otherwise be grown elsewhere in the garden.

After the ground has been dug, manured or fertilized each spring (except as the first as described below and before the asparagus shoots have begun appear) seeds of any of the quick maturing early crops may be sown or plants transplanted on rows parallel with those of the asparagus and cultivated just as if the asparagus were not there. However, a little extra care must be exercised to avoid breaking or cutting the shoots.

The best crops suited to such combination are spinach, onion sets, radishes, lettuce, early cabbage, mustard and pepper grass (garden cress). All of these may be sown or plants set early in spring and all will have been gathered before the asparagus tops shade the ground heavily by midsummer.

Another group not quite so desirable but still useful includes early dwarf peas, globe beets, forcing carrots, kohl rabi and purple top turnips. Often quick growing bush beans may be sown to advantage in the centers between the asparagus rows after spinach or some other crop has been gathered. In such cases the area may be made to produce even three crops—asparagus, spinach and stringless beans—before the first of these will need all the food available to store food for the shoots of the following year.

The management of these crops is exactly the same as when they are grown in areas by themselves except that it is best that none of them be sown or planted immediately over the asparagus rows.

Contrary to popular belief an asparagus bed is not difficult to make. Where it is properly made the other crops just referred to may be grown. The old practice of excavating, carting away and replacing large quantities of subsoil with all sorts of junk is waste of effort.

WHERE the soil is naturally deep and rich many gardeners are content to dig trenches a foot deep. It is better even in such cases, still more where the soil is poor, to dig a twelve-inch trench for each row, spreading the soil evenly over the surface of the bed, then to dig the bottom of the trench six inches deeper and thoroly incorporate with it a three-inch layer of old manure, coarse ground bone, whole bones, inverted sods and any other available animal and vegetable waste. This is like putting money in the bank: it will all be paid back with interest.

After this material has been tramped down, enough rich compost or the best available top soil should be put in to raise the soil to within six inches of the surface when also tramped down. On this layer place the plants a foot or eighteen inches apart taking care to have them in line, with their buds pointing upward and their roots spread out widely. A little earth thrown on them will hold them in position as the planting progresses. When all are in place this should be increased to not more than an inch also tramped down but without actually tramping on the crowns of the plants themselves.

As soon as a good stand of shoots appears use a narrow hoe or a hand weeder with a sharp blade to kill weeds in the bottom of the trench. Do this two or three times before the plants get six inches tall. Then begin to work a little soil in from the sides of the trench each (*Cont. on p. 55*

How To Grow Giant Asparagus

BUY one year plants. Martha or Mary Washington will be rust-resistant.

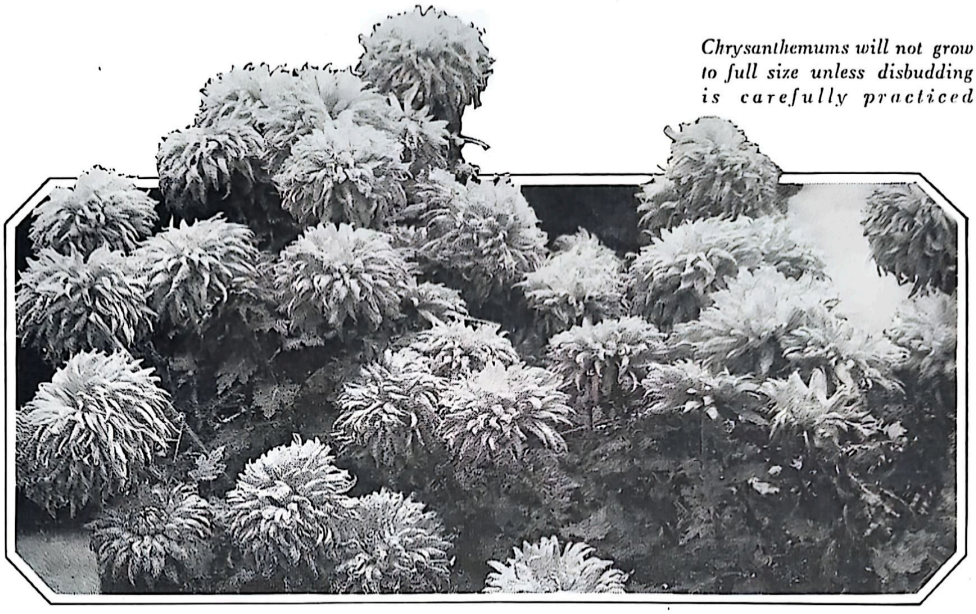
In planting, dig a trench at least a foot deep and fill it to within six inches of the top with good, rich soil. Set plants, cover roots and tamp soil firmly. Fill in trench gradually.

Keep out weeds at all times.

Do not cut stalks until third season. Even in old beds, cuttings should cease after six or eight weeks. This vegetable needs rich soil.

Cut off tops when they turn brown in the fall.

Mulch the roots in late fall with stable manure.



Chrysanthemums will not grow to full size unless disbudding is carefully practiced

We Grow Big Mums Out-of-Doors

BEN ARTHUR DAVIS

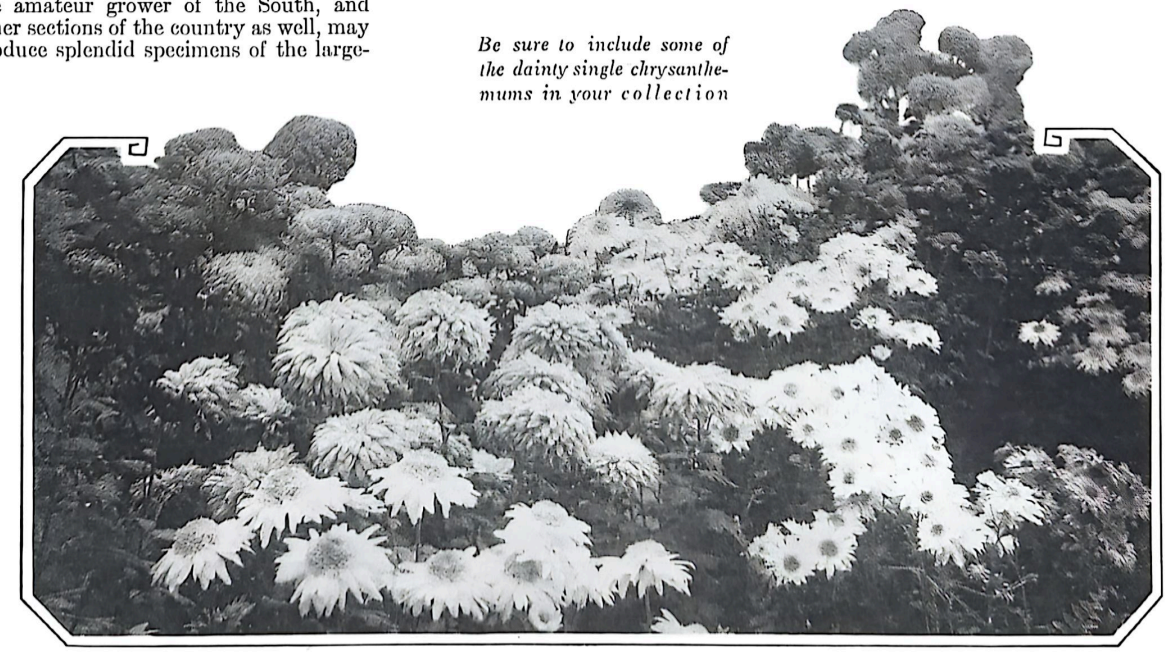
WHEN the first days of autumn arrive, the florist fills his windows with baskets of chrysanthemums—great shaggy flowers balanced on long, sturdy stems—that perfume the air with a spicy fragrance suggesting football games, Thanksgiving day and all sorts of autumnal festivities. We are all acquainted with these chrysanthemums which the florist grows. Few, however, realize that show chrysanthemums may be grown successfully in the home garden.

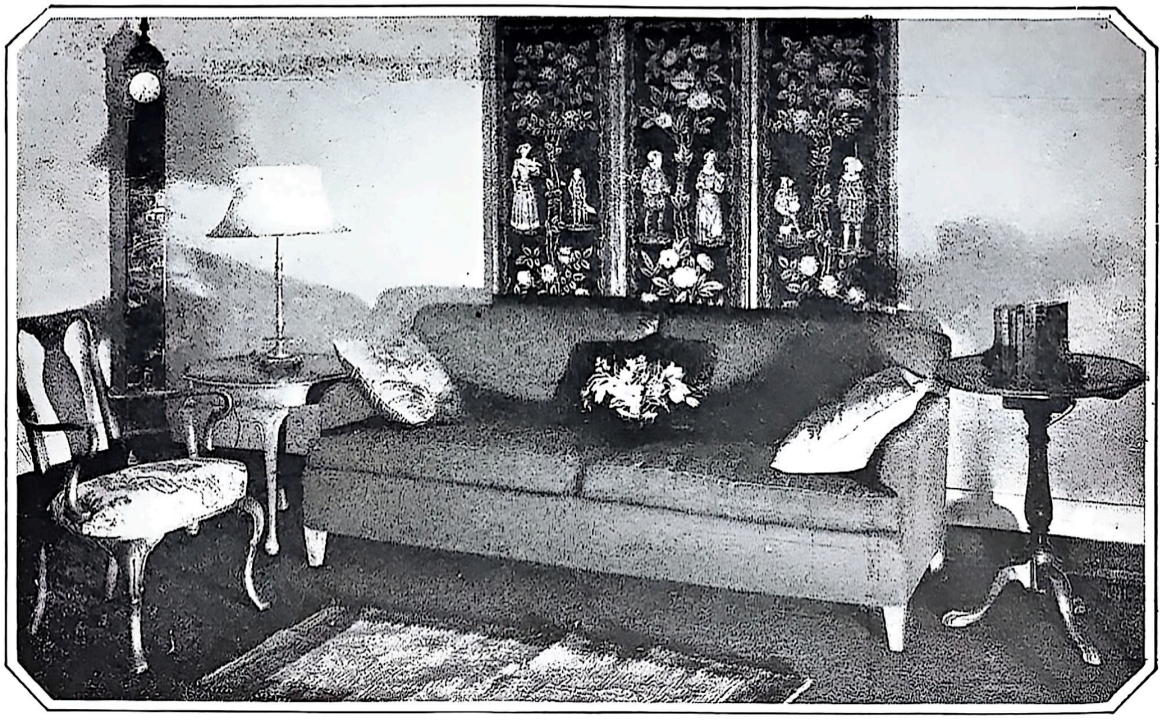
In this article I shall not attempt to describe the manner in which these beautiful flowers are grown in the large commercial establishments, but rather how the amateur grower of the South, and other sections of the country as well, may produce splendid specimens of the large-flowering type without the use of the greenhouse. It cannot be expected that flowers grown in the open will equal in either size or quality those produced by the professional grower under glass, but such blooms can be produced as to bring joy to the heart of any flower lover.

Good cuttings may be obtained from nurserymen at a reasonable price, and, as with other plants, it is suggested that only those of good quality be bought. It is the poorest kind of economy to buy the cheapest plants and seeds. The beginner will do well to attempt to grow only a few plants the first season. There is so much about their growth that cannot be gleaned from books and magazine articles on the subject. The different varieties have their different peculiarities and requirements, and these can best be learned from actual experience in growing them.

While it may not be desirable to confine one's activities to the very earliest varieties, it would be well to select those that bloom before the coming of real winter weather. The chrysanthemum plant is generally hardy in the South, but frost is detrimental to the blooms, especially to the white ones, and some light protection should be provided. This can be easily arranged if (*Continued on p. 111*

Be sure to include some of the dainty single chrysanthemums in your collection





An India print, always charming and now very popular, backs up the sofa

Four Important Accessories

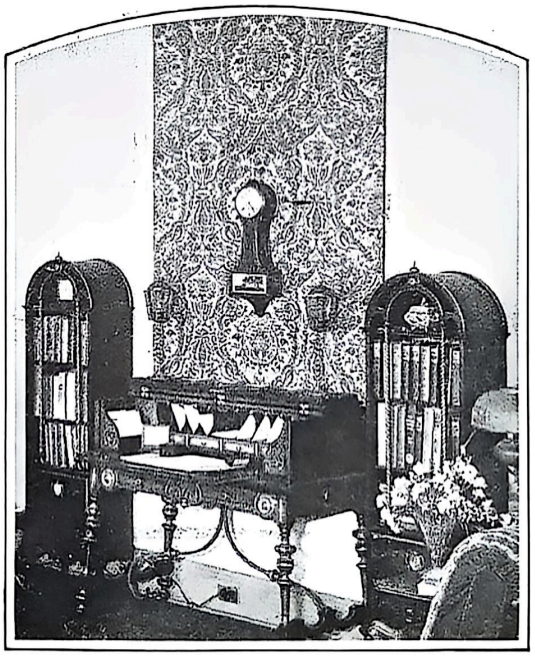
Screens, Clocks. Fabric Wall Hangings and Window Shades are Considered

ROSS CRANE

IN foregoing issues I have discussed rooms as a whole, for the most part, but today I am dealing with four incidentals or accessories which are or can be made to be important factors in the furnishing of a room as well as effective elements in its decoration. These four accessories are fabric wall hangings, screens, clocks, and window shades.

One all too rarely used asset of home decoration is the fabric wall hanging. Pictures and mirrors are enlisted in the decoration of walls as a matter of course, but it is seldom that one finds a fabric wall hanging in what might be termed an average type of home. Yet such a decoration, wisely selected to accord with the character of the room and its appointments and correctly hung may give real distinction to a room. On the other hand a too elaborate hanging, installed in a way to call undue attention to itself, may make a room appear to be putting on airs.

A large, costly, hand loomed wool tapestry, for instance, in a modestly unpretentious living room might seem out of place, like wearing a silk hat with a business suit, or a silk hat in a small town. But for a pretty, refined, unassuming home interior there are other types of fabric hangings that are as unobtrusive as a spinet desk, but because of the conspicuous position the wall hanging occupies, even more effective decoratively.



A seven foot length of hand-blocked linen serves to unify a composition of desk, book case and banjo clock

In the average living room there are three or four wall spaces that really require a fairly large object, namely the spaces over the mantel, the sofa, the piano and the desk and when present, a long console table.

A PICTURE or group of pictures will take care of one or more of these spaces, a mirror of another, a hanging bookcase of another and for any remaining space there is available some sort of fabric hanging.

One of my friends moving into a new house, relieved the dreadful bleakness of newly plastered white walls (left unpapered until after the inevitable cracks should appear) by covering the wall back of the grand piano with a sumptuous Paisley shawl and doing the room in the colors of the shawl. (She might just as well have hung the shawl above the sofa instead. In

which case, however, it would be advisable to work the sofa into the color scheme of the Paisley shawl by means of pillows in the shawl colors, but this would be practicable only if the sofa were covered in a neutral hue such as taupe or rose-taupe, or in one of the shawl colors.)

In Figure 2 a seven-foot length of hand-blocked linen in a striking East Indian type of design serves as background and unifying factor in an interesting composition of desk, bookcase and banjo clock. In Figure 1, an India print, now very popular and always charming, backs up the sofa. Another effective and quite inexpensive possibility as a wall hanging is found in the East Indian rugs, known as "Numdah" rugs.

A BREADTH of damask or brocade, a crewel work design on linen—any one of a variety of fabrics may be used in this capacity, not forgetting several upholstery fabrics, such as wool and cotton tapestries, friezes, etc. The two important things to keep in mind are that the colors shall repeat the room colors, and that definite colors and vigorous pattern are a tonic for rooms which are deficient in these qualities, but poison for rooms that have much pattern.

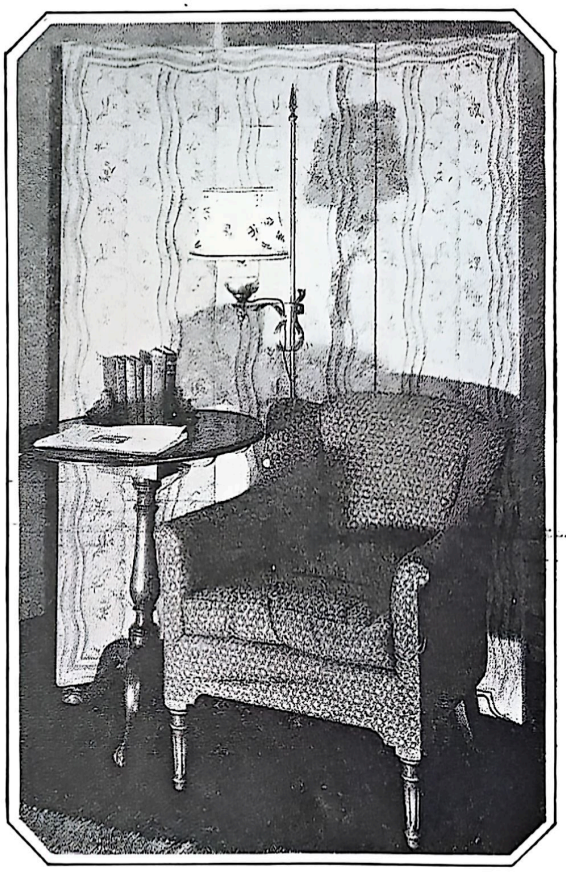
Sometimes a wall hanging serves as a background for a picture which by itself would be too small for the wall space; sometimes a mirror is used. The latter can be utilized in this fashion on fabrics of decided pattern and color, if desired. Of course no one will hang either mirror or picture over a scenic tapestry; that would be to conceal decoration with decoration.

As to the correct manner of mounting fabric hangings, there is a variety of ways. In an interior of Spanish or Italian type it is quite suitable to suspend them by straps, made of the fabric itself, which are passed over a decorated iron pole, the latter being held by cords attached to the picture rail or cornice molding or in the absence of these, to nails with decorated heads, which should be driven into the wall close to the ceiling line.

In the rooms of no particular period type, a simpler method is advisable: an iron or wooden pole about three-fourths of an inch in diameter is slipped thru loops sewed onto the back of the fabric itself and is suspended from the picture rail by cords. Even simpler and fully as correct is the method often employed of attaching the hanging to the walls by nails or invisibly, by tacks.

Fabrics of light weight, generally, should not be too tightly stretched but hung loosely, except when a definite and colorful pattern suggests flattening out the fabric to give the design a chance as it were, as in Figure 2. Sometimes such hangings are finished off by means of an edging, sometimes by a heavy decorator's cord, as in Figure 2. Gimp, braid and fringe are also used. Occasionally they are hung with no such decoration. Like window draperies, fabric hangings as a general rule need to be lined. Sateen is, of course, the standard material.

Screens seem to rank among the unconsidered, or at least neglected "assets of decoration" as far as the average home is concerned, which is unfortunate, for screens have a utilitarian value of their own. They can be used to shut off the view thru an unfortunately placed doorway, to ward off draughts, or to make an attractive background for a snug, cozy fireside grouping of furniture; while their graceful lines and characteristic height and possibilities for introducing beauty in color and pattern make them decorative elements too valuable to be ignored. And what is important also, they are now very popular.

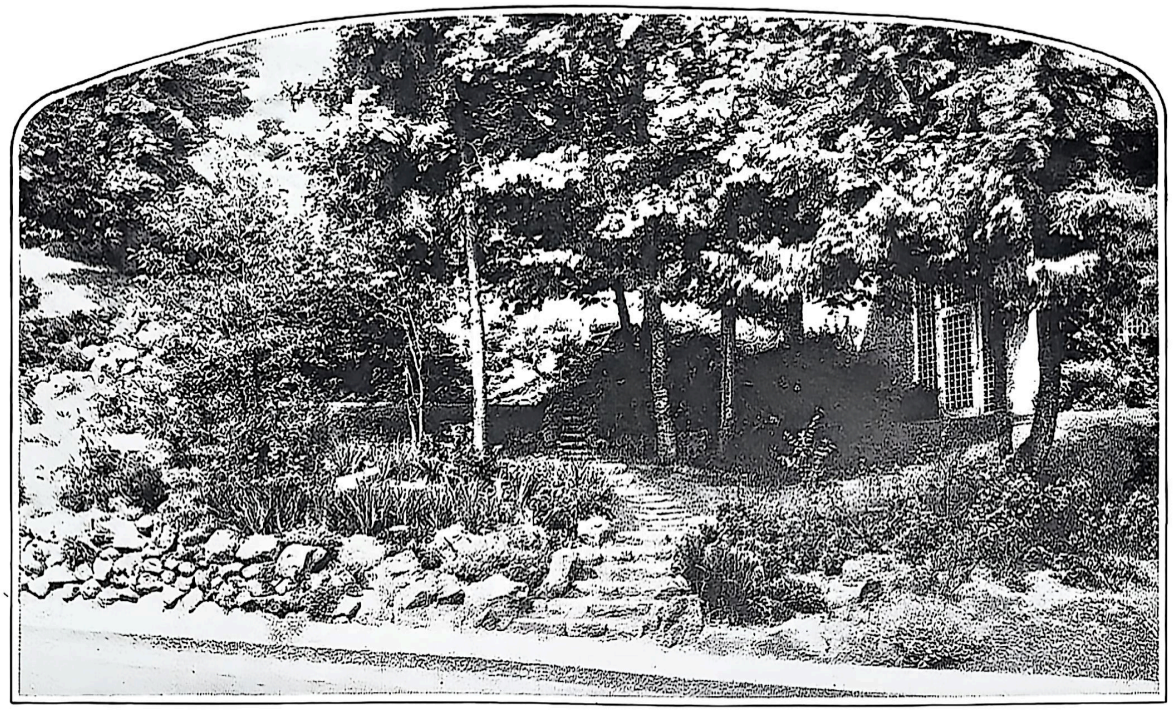


A simple three-panel screen covered with wall paper in a modernistic design gives character to a conventional grouping of chair, table and lamp

Bands cut from the drapery cretonne cover the cornice boards and dress up the window shade

Let me turn this article to practical use by indicating some of the special uses to which a screen can be put. I have in mind an unprepossessing living room which was brightened and vitalized with but little cost by means of a screen, some cushions and a small throw rug.

THE carpet, sofa and one chair were in taupe—rose-taupe, which has only a slight tinge of color but blends well with rose. The screen colors were deep rose-red, yellow, green and two shades of blue on a black ground. While the rose taupe of the sofa keyed in with the rose in the screen, yet the effect of a unified color composition was not secured until three pillows were thrown on the sofa and a small rug was spread before it. One of the pillows was in rose red, the second in blue while the third one and the small rug repeated all the colors of the screen. What this ensemble of harmonized colors and interesting pattern did to brighten and vitalize that dull (*Continued on page 131*



Little flights of natural rock stairs lead from one terrace to another

Landscaping the Hillside Lot

NAOMI SWETT AND ADOLPH MEYER

NO problem in landscape architecture is more intricate, or more interesting, than the beautification of the irregular hillside lot, which is usually reached by means of a public street winding its way around a hill.

Except for a general suggestion that adaptable lawn covered terraces whether large or small should be unbroken by additional planting of any kind, the garden landscaping differs in every instance, according to natural layout and architectural style of the house. Here are required the finer perceptions of the artist, who with rocks, trees, flowers and shrubbery must skillfully paint a garden picture that will exemplify the site as Nature herself would do in her most gracious mood.

A typically visionary artist set out to purchase for herself a hillside home, walked thru the living room of an unostentatious Dutch colonial house and as if drawn by magic, rushed to the glassed-in walls at the rear, where a panorama of river, hills, and snow capped mountains stretched in unbroken line as far as the eye could reach. "I'll take this house!" she cried ecstatically, and to this day she has never really seen the house itself, being entirely wrapped up in her garden, and her view.

The house lies but six or eight feet back from the sidewalk atop a steep hillside lot with a fifty-foot width and a depth of 120 feet, which was transformed to an odd "horn" shape by the acquisition of an additional 50x100 triangular lot adjoining its lower end to "save the scenery" for this ardent lover of nature.

A suggested treatment for a steep lot

The first problem was to overcome the steep rise from the street below by the only possible recourse of rock gardening, and yet avoid the dangerous extreme of a too rocky effect, so that in its completion this estate would blend softly with the beloved vine maples, dogwood, maples, fir trees and hemlocks of the surrounding hillsides. Then the steep grade was divided into easily rolling terraces of sweeping green lawn and rock garden embankments, beginning at the base of the hill with a five foot wall of honeycombed, mossy rocks protecting a gently sloping stretch of lawn; then another wall of about the same height, a lawn, and still a third wall and terrace.

Above the first rock wall was planted a choice selection of native shrubs, such as syringas, flowering currants, Oregon grape and ocean spray, into which were worked groupings of the more cultured flowering and evergreen forsythias, barberry and escallonias. Several groupings of the beautiful rock *Pentstemon newberry*, planted alternately with nepeta and yellow alyssums were placed above the second rock wall,

in the crevices of which were planted large quantities of *Erigeron mucronatus*, a native trailing daisy from Mexico. Little flights of natural stairs and single stepping stone walks lead from one terrace to another, till the large rockery forms a third easy terrace ending at the upper road.

The effect of this series of rock walled terraces, between them the gently rolling green lawns of awe-inspiring loveliness with outlook from their own beautiful aspect on a scenic panorama is little short of marvelous. From the lowest corner of this queer-shaped lot, the vista of terrace, rock wall, terrace and then rock wall, is that of an idyllic meadowland lying near the mountain timber lines.

Utmost simplicity was observed in the exterior decoration of the house itself, which adheres closely to early Colonial style. The side walls and brick fireplace were ornamented with Boston ivy, and the base of the house bordered with a shrubbery planting containing boxwood, rhododendrons, daphne, Mexican oranges, and evergreen barberries. The garage, lying level with the street has been overplanted with a selection of shrubbery which within a few years will practically conceal it from view.

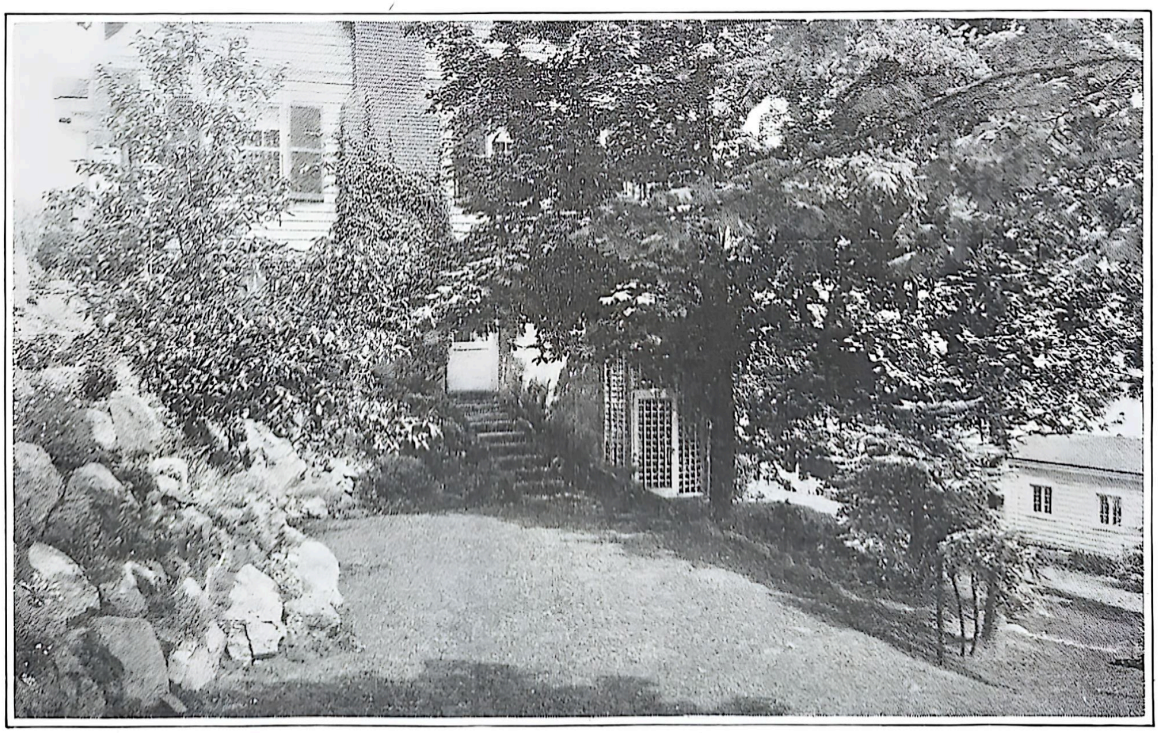
A natural rock staircase, easy of ascent

ANOTHER irregular hillside lot rises instead of drops from the main street level, and tho it has a width of 110 feet at the back is but 75 feet wide at the front. At an elevation of 18 feet from the street, this very unusual lot has an additional 45 degree slope at the back.

In order to leave as much easily rolling ground around the residence as possible for recreation purposes, it was necessary to build the main entrance in a very compact form. A natural rock staircase shaped in the form of a letter "S" worked into a wall garden of honeycombed, mossy rock proved the most interesting solution of this difficult problem, and easy ascent was assured by placing a wide landing at every third or fourth step, thereby adding to both their convenience and their attractiveness. The rather steep grade of the upper grounds was overcome by swinging the five-foot wide brick walk within the grounds into a semi-circle, leading in a wide curve to the main entrance of the house, which then fronted an unbroken sweep of smooth lawn. A smaller brick walk follows another semi-circular course to the service entrance while a concrete stepping stone walk branches from the main entrance to the open terrace.

WITH the exception of abutting rock gardens used in places to provide easy grades for croquet, the upper grounds were very simply treated, rolling lawns being allowed to slope gently down to the rock walls at the street. In full view of the sun porch at the south side of the house a bit of additional enchantment was given to the landscape in the form of a little artificial creek and lily pool. Afloat with water lilies, amongst which goldfish dart continually, and surrounded by a planting of flowering and evergreen shrubs that blend harmoniously with those in adjoining gardens, this seemingly impossible hillside has been converted into a delightful park, where the north slope, used for a fruit and berry garden, contains a rustic stairway to the carline below, bordered by natural growths of native shrubs and flowers.

The floral decoration of the main entrance begins with (*Continued on page 136*



A hillside divided into a series of rolling terraces with connecting rockeries

An Engineer Looks at a House

Open-Window Ventilation is One of the Traditions Attacked by Charles F. Kettering

ELMER T. PETERSON

WINDOWS are the weak points in the armor of the house. They are the most flagrant wastrels in the scheme of home economics and home engineering. Windows should never be opened except to be cleaned. Houses should have double-pane windows, to keep heat in and out. Windows should never be used as ventilators.

These are some of the points that kept coming back to me after I interviewed Charles F. Kettering on the subject suggested in the above title.

However, the most outstanding thing that struck me about Mr. Kettering's dispassionate but withal human point of view was that he could wholly dissociate himself from customs, habits, traditions and preconceived notions, and approach the problem of house-building and home-making as a scientist approaches a chromosome or electron, judging the house precisely upon its merits. The scientific mind builds from the electron up. It takes nothing for granted. It proceeds upon the theory that all things must be tested and proved. If there be a smaller division of matter than the electron, the scientist will build from there, regardless of previous concepts, and let the electronic chips fly where they may.

Human comfort is a scientific factor, after all. One cannot have the proper food, have his house well heated or lighted, enjoy the proper sanitary conveniences, drive an automobile or operate an electric device until after the scientist has gotten in his work. Diagnosing a house's deficiencies is a new field for engineers, and Mr. Kettering is a pioneer in this, as well as in other respects, altho, because of his intensely busy life, he could not make an exhaustive survey of a great number of houses.

His pioneering spirit is evidenced by his invention of the first automobile starting system, to which is added a new lighting and ignition method. He is the inventor of the Delco-Light farm lighting and power system. He is the vice president and research director of the great General Motors Corporation; vice president of the Delco-Light Company of Detroit; president of the Dayton engineering laboratory; consulting engineer for various allied corporations; and trustee of Antioch College, where many of his advanced ideas concerning engineering and industrial life have been worked out. He is former president of the American Society of Automotive Engineers and is recognized as one of the greatest engineers in the world.

Charles F. Kettering, vice president of General Motors, an engineer of international fame

Out of his tremendously busy life, which consists of heavy executive duties and world-wide as well as country-wide travels, he consented, one day last winter, to give me some of his views about the engineering aspects of the average American home.

The opinions of such a man on any engineering are certainly worthwhile, and it was a privilege to receive them. Mr. Kettering has worked out some of his ideas in his own home at Dayton, and he speaks from a very practical as well as scientific standpoint.

Approaching the house the engineer's attention is attracted to the windows.

What are they for? To admit light and air, the layman says.

"To admit light—yes. To admit air—positively no!" That emphatic statement is the first reaction of this eminent engineer.

"The window is usually made with a single pane of glass. A pane of glass with air constantly moving on both sides of it is a very efficient conductor of heat, and therefore is a very inefficient heat insulator.

"Modern house insulation is a great thing. There ought to be more of it. But if you pad your walls with a non-conductor of heat to keep the warm air inside or out, as the case may be, you are doing only a partial job. The openings have no insulation. What is the remedy?

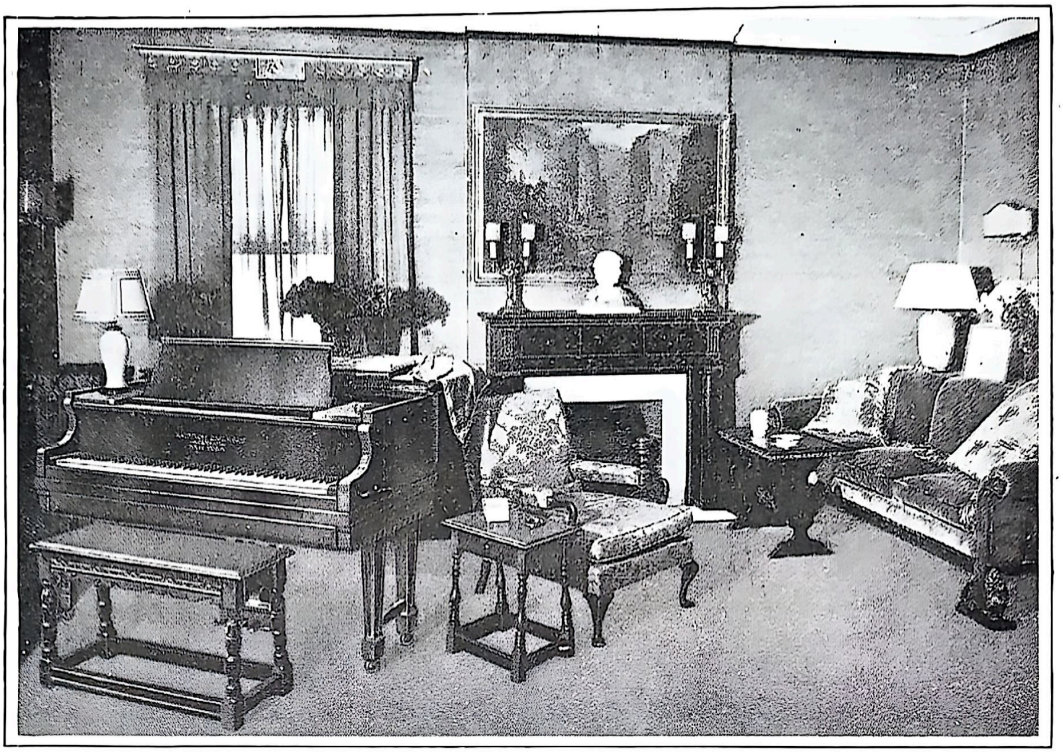
"Of course we wish to retain the transparent quality of the window, so that daylight may be admitted and we may enjoy the scene outdoors. But that matter can be taken care of by having double-pane windows with a dead air space between the sheets of glass.

"These windows ought to be tightly sealed. Then comes the problem of insulation. Rid your mind of the notion that the open window is a great blessing. The open-window fanatic has had his day in court. Let's look at the thing from a different angle.

"The thing we want is fresh air. Very well, let us secure fresh air by means of ventilating ducts, with intakes on the roof or wherever the freshest possible supply can be secured. It doesn't matter much where the intake is, for we propose to insure the flow of pure air by means of electric fan suction. Possibly we may filter the air as it comes in. Or we may heat it, somewhere along the route. These are details which can be handled according to the specific case, whether you have a hot air furnace or steam or hot water, or possibly electric radiant heat.

THE ventilator openings should be at the proper places in the rooms, the air entering the room from high points in the walls and being removed from vents near the floor. Cold air, which is mixed with carbonic acid gas after being breathed by the inmates of a house, is heavy and naturally moves along the lower part of the room.

"In the scheme of conserving health it is also necessary to keep the humidity of the house at a fairly constant point. This cannot be done when there is constant and rapid condensation on the cold window panes. (*Continued on page 106*



The ideal musical instrument repeats musical harmony by becoming a part of the decorative melody of the room

The Modernized Piano

Beauty of Design Has Kept Pace With Beauty of Tone

E. C. BOYKIN

OUR lives today are much a matter of buying and selling. Morning, noon and night we are bombarded from all sides with all sorts of appeals which are conceived for the purpose of selling us something. The morning papers thrust upon us unawares a thought that we cannot possibly live without a certain commodity. The trains, trolleys or buses which carry us to our daily work all shriek ideas which are intended to effect an exchange of money for a manufactured product.

Magazines, theatre programs, bill boards and a thousand other media of thought which we must read in order to keep abreast of our fellow men all carry sales talks which will sooner or later have the desired effect by those who place them there.

The appeals are varying, many sound and some a bit far fetched. The idea of utility—usefulness is the basis of appeal for one group—health another and perhaps beauty a third. We are warned, commanded, implored to benefit ourselves both inside and out, mentally and physically by the purchase of some manufactured commodity.

Have you seen the new decorative pianos?

To one who has been by force of habit a student of buying for many years, it seems that from the standpoint of logical appeal, the piano has the most noble story. There isn't a doubt that the ability to play this prince of musical instruments, the presence of one in the home, have many far reaching and beneficial advantages which attract more than a passing notice.

People who make it their business to read the current periodicals, people who think for themselves, don't have to be told again the story of the piano. They are fully acquainted with its glorious history—its abundance of beautiful literature—its great part in the history of music and the famous masters who have composed their immortal melodies on its keyboard. As long as pianos have been made their appeal to humanity has been recognized as being as sound as a dollar.

Mothers and fathers who are ambitious for their children know the value of early piano training. They have (*Continued on page 68*

Your Plants Must Be Fed

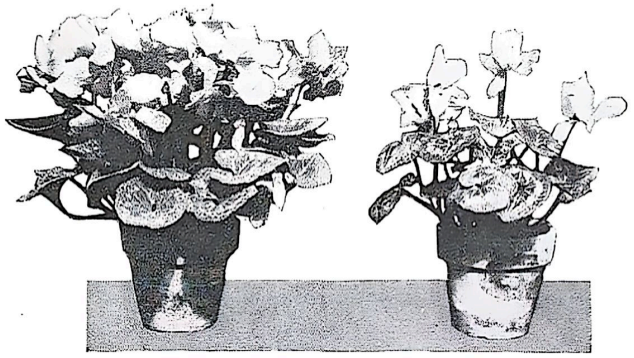
How, When and Why Commercial Fertilizers Should Be Used

ALEX LAURIE
Michigan State College

ACCORDING to the earlier conception of the term "manure," it meant anything which when applied to the soil would render it more productive. In fact many of the early writers referred to the benefits of tillage as manuring of the land. The use of dung of animals, chalk, marl and other substances for increasing the productivity of the land was known to the early Greeks, Romans and even the early Chinese. During the dark ages, following the decline of the Roman Empire, practically all records of the use of various materials were lost, but the former knowledge was perpetuated by the inmates of the monasteries.

A true understanding of the fundamental principles of fertilization of the soil was made possible thru the aid of chemistry. The discovery of oxygen by Priestly and the action of sunlight upon plants as well as decomposition of carbon dioxide, were the first steps toward rational understanding of plants and their functions. The discovery of the usefulness of nitrogen, the analysis of plants which showed the presence of various elements paved the way for the present methods of fertilizer practice.

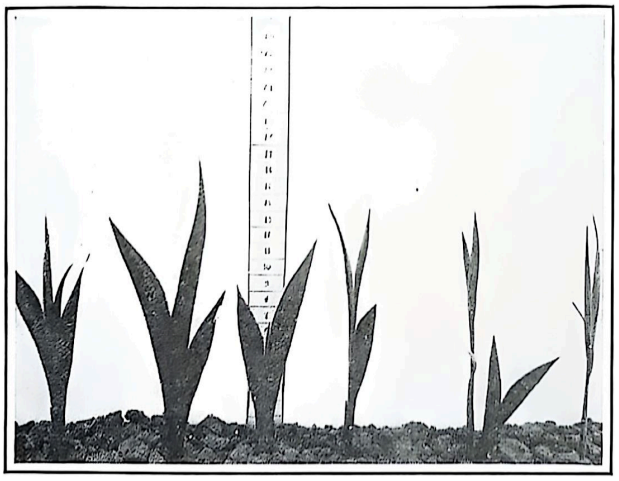
In order to appreciate the finer points of fertilizing the ground either with manure, cover crops or commercial fertilizers, it is essential to know just what part the more essential elements play in the development of the plant. Altho there are many needed materials, the only ones that we need be concerned with are nitrogen, phosphorus and potash. Nitrogen is essential for general growth and its presence or absence is readily manifested by the condition of the foliage. Green heavy foliage which snaps instead of bending is a sure indication of abundance of nitrogeneous material. Stunted growth, yellowing of the leaves and a general sickly appearance may show the lack of this element. Phosphorus is needed for the stiffening of stems, the development of seed, hastening of maturity, besides its other functions of combining with materials in the soil to make them more available to the plant. Potash is also needed in the development of the stem and flower, but it plays an important role in root formation, in increasing color and in giving the plants a system more resistant to disease attacks.



The various photographs on this page represent tests made at Michigan State College. It is not difficult to determine which plants were given applications of commercial fertilizer

NITROGEN comes in various forms, both from organic or decayed animal or vegetable matter and from minerals. Dried blood and tankage, by-products of slaughter houses are sources of organic nitrogen ranging from five to sixteen percent. Various animal manures also furnish this material in small quantities. In manures it ranges from five-tenths percent in cow to two percent in sheep. The inorganic or mineral forms are ammonium sulphate, nitrate of soda, calcium nitrate, floranid-urea and a number of others secured by various processes from the air. Dried blood and tankage require a longer time to become available to the plants after being applied than the chemical fertilizers mentioned above. The latter are extremely soluble and should be used with great care. Whereas we may apply manures to the soil at the rate of twenty to thirty tons to the acre or as (*Continued on page 122*

Manure was the only plant food applied



Commercial fertilizer was used here

Gardening on the Rim of the Prairie

CRAIG S. THOMS

FOR the purpose of this article "the rim of the prairie" means eastern South Dakota and the country stretching away to the north and away to the south. In this region there is much variation in soils, rainfall, length of seasons, summer heat, time of first frosts, and number and variety of insect pests. The writer is not a market gardener, but a lover of the home garden who for the past twenty-five years has wrestled with the gardening problems of this region, and now writes with the hope of helping others either to master them or to adjust the garden to them.

My gardening begins in January with the arrival of the first catalog, and takes place in an easy rocker before a blazing hearth fire, when the wind is roaring outside and the mercury is twenty below zero.

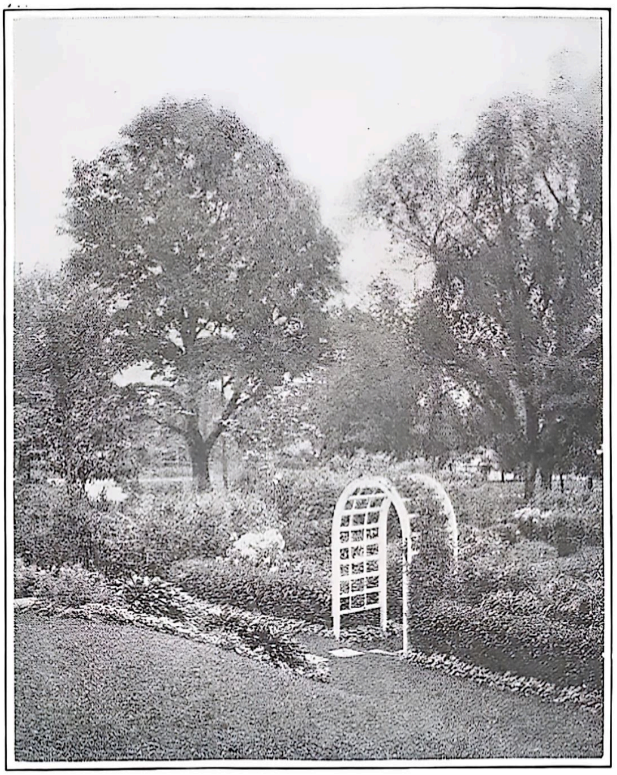
FIRST of all, I select a few new varieties or specialties which the seed folk have developed, and which they describe so vividly that one can almost taste them as he reads. I cannot resist the descriptions. I do not want to resist them, for it is one of the pleasures of gardening to test out new varieties.

But, except for the fun of experimentation, my choices usually fall upon the old standard varieties. I am less frequently disappointed with them than with others.

My coldframe is on the south side of my house, with a window from a furnace-heated cellar opening into it. Here about March 1st I plant Early French Breakfast radishes, Early Curled Simpson lettuce, and Burpee's Fordhook celery. Sometimes, when the spirit moves me, which is not often now due to repeated failures, I try for head lettuce by starting Big Boston or New York (Wonderful) in seed cups in the coldframe and setting them out as early as the weather permits. This is about the only way to grow head lettuce in this region, and even then the season must be favorable. Head lettuce is a cold-weather plant and will fail here four times out of five owing to our short seasons and hot summers.

In the open garden I always plant several kinds of lettuce. With either Simpson variety as main dependence, I plant Iceberg and Crisp as Ice, which, tho heading varieties, are excellent as loose leaved, and, in favorable seasons, they will partially head. The real heading variety for this region, however, is Cos, because it can be made to head by tying a string around the top.

This region is scarcely more favorable to celery than to head lettuce, and few gardeners attempt it. Celery is an autumn grower and requires abundant moisture. Usually our summers are too hot and often too dry to get it well started. Notwithstanding these adverse conditions, however, I have not failed of good celery, except for one season, for a dozen years. I plant in the coldframe, as indicated above, and as soon as the plants are large enough I set them in a trench twelve inches apart and four rows wide, rowing both ways to facilitate hilling up. Around each plant I place a two-inch-high pasteboard collar to protect the plants from cutworms and partially shade them while rooting. The purpose of early transplanting is to enable the plants to become well established before hot weather sets in. I do no hilling up until the first of September, since the outer stalks, grown during the heat of summer, and being tough and fibrous, are not worth bleaching. When lifting celery for the table I throw away from one-half to two-thirds of every bunch, all the outer stalks, and eat only the tender shoots, most of which never have seen the light. In this way our table is supplied with celery of the finest quality until about January 1st.



A typical prairie lot. Here the flower garden is separated from the lawn by a neat hedge; the vegetable garden at the extreme rear of the lot is likewise bounded by shrubbery

My favorite radishes are French Breakfast and Icicle (white). The Icicle is especially suited to our hot days on account of its tender crispness. But all radishes need a light, quick soil, and in many places where our soil is heavy with gumbo a load of sand could be used in the radish bed to great advantage.

EARLY peas are as successful here as in other regions, but there should be no delay in planting late varieties, lest when they are maturing there come showery nights and hot days, which, as in 1927, not infrequently cover them with mildew. I have tried many varieties of peas, and there are many good ones, but I have found none better than Nott's Excelsior for early, Dwarf Telephone and Dwarf Champion for second early, and Telephone and Champion of England for late. They should all be planted as soon as the leaves begin to show on the trees.

With us Early Jersey Wakefield cabbage does well if started early in boxes, while Danish Baldhead, my favorite late variety, is something of a gamble, depending on the season. However, we seldom fail to get heads of some size if we fight the pestiferous cabbage worms with diligence.

Occasionally I try a crop of Long Island Brussels Sprouts, since they do well in this region, and I am fond of them, but when ready for use they are likely to be so infested with aphids in the winged stage as to make them undesirable for food. It may be that this happens only in regions where there are trees, such as the boxelders, of which the aphids are very fond.

We have trouble also with our muskmelons on account (*Continued on page 56*

Years ago hepatica leaves were used for liver medicine

Wisdom in the Wild

Some Facts and Fancies About the Thrift and Skill of Flowers and Trees

HAZEL HANKINSON

Outdoor Music

HAVE you ever vacationed in a cabin in the north woods in summer? Were there pine trees back of the cabin and waves washing the sands in front? Then it was an ideal place in which to think and dream. For, when the breezes run their fingers gently over them, the needles of the pines are harp strings responding instantly, and the rhythmic swish of the water makes a joyous little accompaniment of sound. If a storm is brewing, instead of being afraid, listen and try to sense the wonderful harmony. The trees, then, are a mighty chorus keeping time gloriously to the beat of the white caps on the lake.

Poplar music is very different from the grand tones of the pines. It is soft and wistful and somewhat sad. Perhaps you have heard the crooning and the sighing of the poplar's foliage when you thought the rain was dropping gently all night long. The fine-leaved locusts hum a distinctly merry little song, and the elms, too, have a music of their own. In the autumn when leaves are falling, the voices of the elms are at their best, and the tones are lilting and crisp.

Trees are not alone in being the musicians of the plant world. In the garden, the sunflower rattles the seeds in his pods, like the expert drummer he is. The ears of the cardinals are especially tuned to appreciate this sound; it is the luncheon gong. Grape vines tune their violins with a soft scraping of bows, and seeds of the sweet peas pop out with an occasional jolly accent.

It is quite possible that the idea for the first flute came from listening to the wind blowing thru reeds and rushes. No doubt the first stringed instrument was fashioned of a few plant fibers stretched across hollowed wood, the wind making a little tune as it blew across it. It took quiet and peace and meditation before folks in ancient times could work out even crude beginnings of musical instruments as they are known today.

The radio has just begun to bring sounds from the air as no one a few years ago ever dreamed it could be done. Perhaps, sometime in our homes, by means of far more delicate instruments than have yet been invented, men and women and children will be able to listen to exquisite melodies in nature to which our ears are now quite deaf.

Plants With Life Insurance

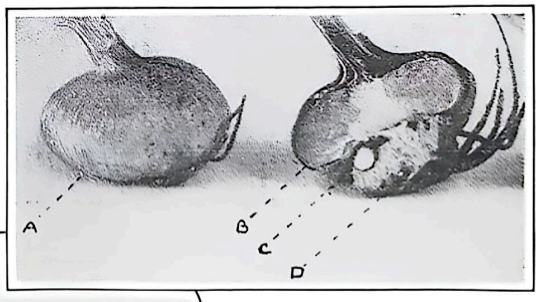
NO man with a home and a family to look after is a better manager than Jack-in-the-pulpit. He's a keen and far-sighted plant-person, even tho he does often live in the backwoods. It may be difficult always to understand what the Reverend Jack's sermons are about; but if he preaches what he practices, he gives a good many talks on thrift.

The little parson saves up for the future in a unique way. All summer long he works, storing up his wealth in pouch-like bags, called corms, and keeping them buried underground. This is the means by which he safeguards his own welfare and that of his Jack-children for the year that is to come.

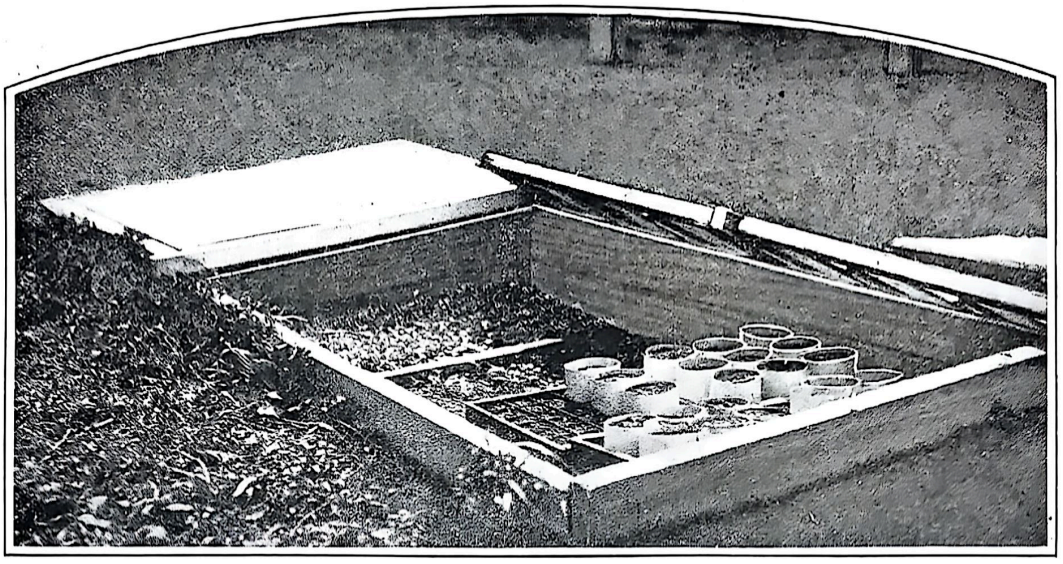
The botany books say that a corm, like those in which the Reverend Jack stores his savings, is a short thickened stem. It does not have flowers hidden within as the bulbs of the lilies and the tulips and the narcissi do; but around the outside of each corm you can see the beginnings of wee buds from which the new "little ministers" are to grow. The corm is holding the bank account, or the food supply, which is to provide for the new plant's needs until it can depend upon itself.

Jack-in-the-pulpit is as wary as he can be in guarding the treasure which he places underground each year. If you should attempt to take a bite of one of the corms, you would (*Continued on page 118*

If we continue to pick the flowers of the lady slipper, this lovely plant will soon become extinct



Above are gladiolus bulbs. "A" shows the savings of the glad in its pouch-like corm; "B" shows how the new corm grows on top of the old one "D"; and "C" is the tiny cormel which, if planted, will some day make new blossoms



Death to plants often lurks in the hotbed

Simple Remedies for Sick Plants

Control Measures Must Be Taken In Early Spring

C. T. GREGORY
Purdue Experiment Station

TWO or three years ago a gardener in Terre Haute, Indiana, was annually bothered by the wilt disease in his tomatoes. By the process of elimination the trouble was finally traced to his plant beds, and at the cost of a little labor in changing the soil, this gardener rid his tomatoes of the disease. The wilt is largely a soil-harbored disease. It can exist, latent in the soil, for about three years, and each year that tomatoes are planted, this disease gets just that much stronger hold and becomes more widespread. Unfortunately, it is also carried to a small extent in the seed, hence the hotbed soil is usually the first to become contaminated. The little plants, however, may give but slight indications of its presence. Any gardener having a hotbed or cold frame and whose tomatoes are consistently affected with the wilt disease, had best look to the plant beds as the source of the trouble.

Wilt is but one of four tomato diseases that may lurk in the plant beds. Late or septoria blight, early or alternaria blight, and mosaic often originate therein. As is the case with the wilt, these diseases may not be conspicuous in the young plant, but in the garden they rise to great heights of destruction, should the weather conditions be favorable. The easiest time to put out a million dollar fire is when it first begins; and so with diseases—squelch them at the start.

One really dangerous habit among gardeners is their neglect of the plant beds during the summer. After the cabbage, eggplant, tomato or other plants have been raised and those that are needed have been transplanted to the garden no further attention is given to the beds. What plants remain are permitted to grow wild, often amid a perfect jungle of weeds. What could be nicer for diseases? The heavy vegetation will prevent the rapid evaporation of any moisture collecting on the leaves, permitting a fine development of leaf spots or leaf blights. Any soil diseases like tomato wilt or cabbage yellows can become just so much more abundant. If horse nettle and ground cherries are present with tomato plants, the mosaic disease is quite likely to become established. In other words the plant bed may become a hotbed of disease.

THE first step, then, in controlling many vegetable diseases is to clean out the plant beds after they have served their purpose. If desirable, plant the space to some other vegetable or crop than that which was raised during the spring. Broadcasting soybeans or cowpeas will serve two good purposes, to smother the development of weeds and to supply nitrogen to the soil. On the other hand it might prove to be useful to grow tomatoes or cabbage in the soil both to raise a crop and to serve as an indication of the diseases that are lurking in the plant bed soil. If the tomatoes die of wilt, or the cabbages become infected with yellows or black leg it is a certain sign that these diseases are in the soil and the proper steps may be taken to rid the soil of them. In any event do not neglect the plant bed in summer.

If the soil is shown to be diseased, one of two things may be done. New soil may be used but in this event it will be necessary to get this new soil from a place where vegetables have not been grown and where the soil cannot have become contaminated by surface drainage water which has washed from a contaminated place. In the case of tomato wilt and cabbage yellows, particularly, anything that carries the infested soil will almost certainly carry the disease.

If the old soil is to be used, it may be disinfected with either steam or formaldehyde, after the soil has been thoroly loosened about a foot deep. Steam sterilization of the soil needs special equipment which will enable the gardener to heat his soil for an hour or more to a temperature of 150 to 180 degrees Fahrenheit at least a foot deep. This will require an abundant supply of steam under pressure of at least 40 pounds. The steam can be forced beneath a heavy pan, the width of the beds, and about ten feet long, with sharp edges, so that the pan may be forced down into the loosened soil. Another means of heating the soil is with perforated pipes placed about fifteen or eighteen inches apart and a foot beneath the surface. The formaldehyde method of sterilization is easier and consists of soaking the soil with a solution made of one pint of formaldehyde in twenty-five gallons *(Cont. on p. 97*

When It's Your Move

An Ancient Bugaboo Robbed of Much of Its Former Terrors

NELL B. NICHOLS

CONGRATULATIONS to the family moving into a better home! Dreams are coming true. The hope every normal individual has sometime during his pilgrimage on this planet is being realized.

But perhaps a bit of sympathy is in order. Certainly no one enjoys the reign of terror, the moving proper. Imagine my dismay, after searching for hours in my new home, to find the baby's hot water bottle in the upper part of the phonograph! And can you conjure up my feelings when the strayed coffee pot was discovered in a bookcase drawer? No doubt these were the freak mistakes of the professional packer to whom the work had been entrusted. Or they may be proof that the contention of my friend, a Methodist minister's wife, is right. She declares that no one knows everything about moving.

So why not be hopeful? Some day the technique of this business of transferring household goods from one house to another will be perfected. Great improvements have been made in recent years. Even a blind man, if he ever goes motoring, knows how roadbeds have changed. And good roads, by the way, have been a powerful influence in cross-country trucking, which style of moving is increasing in popularity, due largely to its speed. The newer vans travel from thirty to thirty-five miles an hour, which means a journey of three hundred miles can be accomplished by the furniture in a day. In moving two hundred miles, the goods may be loaded in the morning and arranged in the new home late in the afternoon. A factor that contributes to this rapidity of action is the elimination of the crating, and this also subtracts from the expense. Pads, supplied by the transfer company, provide protection to the furniture. Even the piano need not be boxed, and most firms nowadays make no extra charge for handling this heavy article.

MOVING can be reduced to a simple schedule. If the furnishings are to be sent by freight, which is usually less expensive when the haul is more than four hundred miles, the program is this: Crate, haul to depot, load in car, unload from car at destination, haul to new home, uncrate and move into house. Since transportation by rail is not so rapid as that by trucks, the family may be required to spend a few days at the hotel while waiting for the household furnishings to arrive, and this should be taken into consideration in reckoning expenses. When the moving is by trucks, the plan is this: The furniture is loaded into the van by the transfer men, hauled directly to the new home and distributed in the different rooms.

It is wisdom to insure household goods when moving, especially on long trips. This can be taken out thru the transfer company, and it is a recommendation for the firm to be able to supply this service, as only those that have proved reliable upon investigation, and which have been in the community several years, are eligible to membership in the National Furniture Warehousemen's Association, thru which the insurance can be arranged. In taking out this insurance, as in all other kinds, intelligence demands that you know what the policy covers. It probably will take numerous questions to find out, but the safe way is to know in advance. If a member of the family rides on the van with the furnishings, insurance will not be allowed.

The ideal setting for a moving drama is to have the new home clean and in order before any of the furniture is moved into it. It is superfine if the curtains can be hanging at the windows, too. In many cases this cannot be attended to in advance, but when the quarters are in order, the furniture can be set in place by the transfer men, and there will be little confusion.

Perhaps the first logical step in a moving campaign, regardless of whether the new home is in the same or a different town, is to call the firm which is to do the work and ask it to send a representative out to look over the furnishings. He can at least offer suggestions that will be helpful to the inexperienced mover. If any of the packing is to be done by the family, he will have ideas to offer concerning methods to be used. It is the common rule for the company not to stand good for damages incurred by dishes, lampshades and other fragile articles packed by their owners. Loss by breakage is guaranteed by most companies if one of their expert packers attends to the preparation of the goods for moving.

What to pack first sometimes is a question. The safe answer is this: books, bric-a-brac, the best china, pictures, toys, the best clothes and anything the family will not need for a few days. Of all the errors made by novices in moving, the most common one is that of storing too many books in a box. It is much better to pack the books in several small boxes than in a few large ones. Books are heavy at best, and huge boxes of them injure the feelings as well as the backs of the movers. Disgruntled workers are not agreeable, and sometimes they are not careful. Of course, the difficulty in handling extremely heavy boxes makes it easy to scratch furniture and floors with them.

Floors in both houses, the old and the new one, require protection. Most movers spread down canvas. If the supply of this is not great enough, papers may be used. Old papers are always most useful in moving sieges, and it is well to begin saving them a few weeks before the transfer is to take place. Most movers need cautioning about porch steps. It is especially easy to chip the edges of cement steps with heavy furniture and boxes, and once the damage is done, it cannot be remedied unless new steps are made.

DISHES are best packed in barrels, every dish being wrapped in newspaper. After wrapping, the smaller ones are placed in the larger ones to make for compactness. If possible, it is desirable to use excelsior in the barrel, but if it is not available, crumpled newspaper makes a fairly good substitute. The heavy pieces of china need to be placed in a separate barrel.

Much of the confusion associated with moving may be eliminated by thought and care in packing. An excellent combination to carry on this work is the professional packer in company with some member of the family. The packer has learned by experience many valuable ways of protecting the furnishings, and the owner has a keener appreciation of the value of the articles. For example, I have a copper luster pitcher that is worth much to me, not merely because it is more than a hundred years old, but also because it belonged to my great-grandmother. To the average packer, it would appear as a small pitcher, and that is all. In my recent (*Continued on page 64*

May Your Every Move Be a Gain!

THREE moves are as bad as a fire," according to an old saying. But everyone who builds or buys a better home must move. If you would avoid travail of spirit and damage to your treasures—if you would make moving a painless operation—study the mechanics of it, and the experience of others.—*Editor.*

News Notes From Garden Clubs

Extracts From a Group of Prize-Winning Letters In Our Recent Contest

LOU RICHARDSON

MISS AMERICA is getting her face lifted! Old blemishes of unsightly city lots, neglected parks and unkempt roadsides are being removed; the wrinkles of unattractive yards and gardens are being erased and the bloom of natural beauty is being brought out. A million garden lovers are the beauty doctors and clinics are being held in thousands of garden clubs.

Every garden club, whether it be a big organization in the large city or a group of a dozen women in a country village, is working to beautify one tiny section of Miss America's face. And each garden club is doing it in just a little different way. At least, that is the conclusion we have reached after reading thru the many letters submitted in the garden club contest conducted recently by this magazine.

The prize-winning letter was published last month. Following are extracts from other prize-winning contributions. From these paragraphs you will, we hope, learn new beauty methods which your own club can use in your local beautification work.

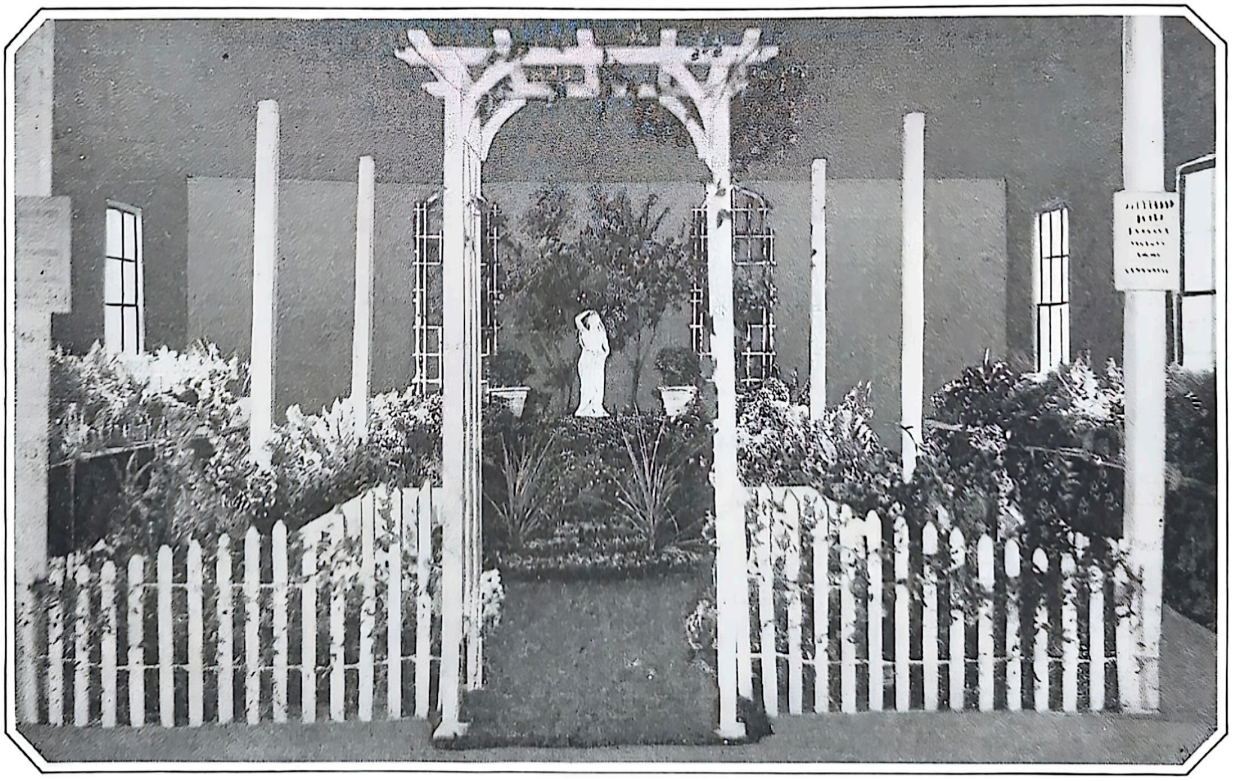
Florence Cassel of the garden club in San Jose, California, (which was described in the second prize winning letter) reports that the principal roadways approaching that city are being planted on both sides with red roses. Can you not imagine tourists saying, "San Jose? Yes, we went thru it. That is the city with the red roses along the highway." This, however, is not the only worthwhile thing which this garden club with its 1,600 members is doing. Junior flower clubs have been organized in the various school districts and many flower shows are held annually. One interesting feature of this club is that there are no fees. Expenses are met by the sale of plants contributed by club members or nurserymen.

Wellsboro, Pennsylvania, relates Mrs. C. L. Miller, has started a community forest two miles from the town where trees are planted and where wild flowers are protected. Such plants and trees will be used later for beautifying the highways and parks. Members of this club contribute garden books, magazines and other garden helps to the town library. This material is always kept on a special table for the benefit of gardeners generally.

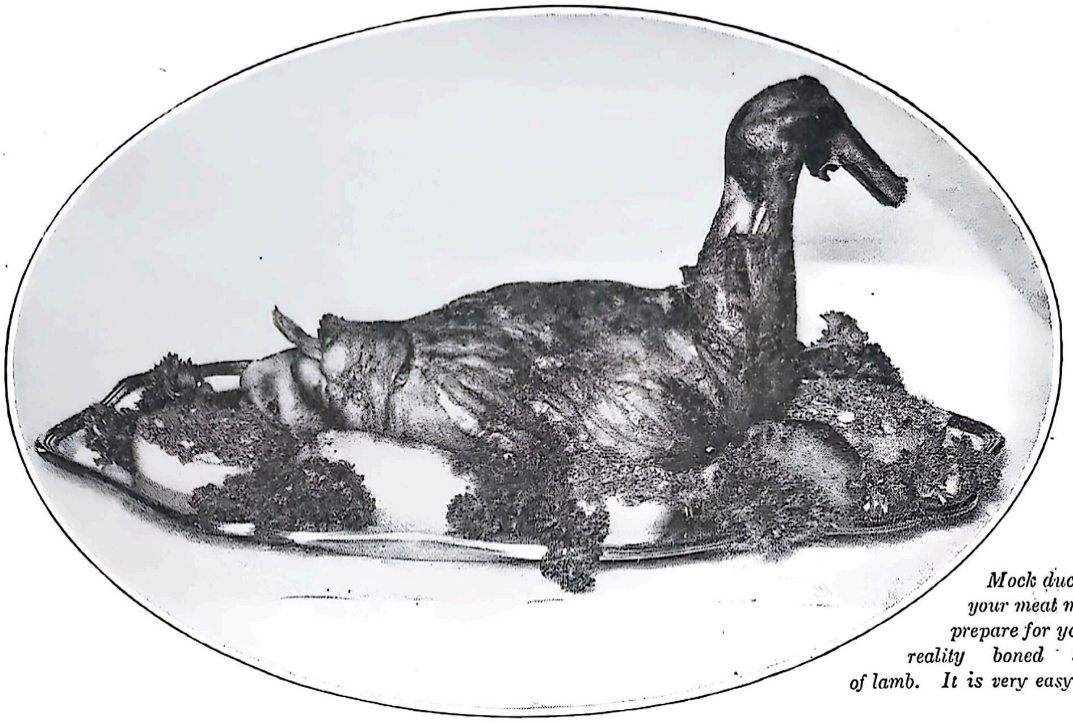
BURTIS W. GRIFFITHS of the Allendale, New Jersey, club lists what they have accomplished as follows: abolished an unsightly garbage disposal; established a municipal Christmas tree; brought about an abatement of the dog nuisance; taken steps to preserve street shade trees and planned an extensive campaign to improve the condition of grass plots between sidewalks and curbs. This is the city where "Open Sundays" are the custom. By this is meant that certain gardens are always open for inspection on this day of the week. Visiting gardens is evidently a part of the Sabbath observance during the summer months in this Eastern town.

Most garden clubs have a slogan. The one in Milan, Tennessee, is "Say It With Your Own Flowers." Mrs. Joe Thomas in telling about their organization brings out the truth that a garden club means more than the beautification of yards and the cultivation of flowers. It renews acquaintances, strengthens friendships and elevates the hearts of all who take part. This spiritual mission of the garden club is well worth thinking about.

The winner of the seventh prize in this contest was L. Virginia Landphair of Fairview, Ohio. Since so many members have asked for helps in school garden projects, Miss Landphair's letter is being printed in its entirety. (*Cont. on p. 121*



County fairs are also spreading the garden gospel. The above exhibit was staged at Brockport, New York, last year



Mock duck, which your meat man will prepare for you, is in reality boned shoulder of lamb. It is very easy to carve

Seven Dinners for Seven Days

We Begin with the Meat Course in Building Our Menus

INEZ SEARLES WILLSON

THE ideal of every woman in her home, I suspect, is to have every meal so perfectly planned that she need never be even slightly embarrassed at the prospect of unplanned-for guests.

This does not mean that every meal should be elaborate. Far from it. Each one, should, however, be interesting, well-balanced, and appetizing.

Since the meat to be served is frequently a problem, I have, in working out the menus presented here, begun with the meat in each case. In giving the recipes for the meat dish, particular emphasis has been placed on the proper method of cooking, since apparently the majority of housewives feel not quite sure that they know the best way to cook the different kinds and cuts.

In order to give as many cookery methods as possible, more meat is probably suggested in the menus than ordinarily would be bought in a week, and consequently some left-overs are not accounted for. It is not, of course, expected that these menus will be followed literally, day after day.

During the past two years, the Bureau of Home Economics, United States Department of Agriculture, has been doing a good bit of meat cookery and they have formulated the following general rules for cooking the tender and less tender cuts:

"For tender cuts the following method of cooking gives the best results: Sear the meat at a high temperature for a short time until a brown coating is formed. Then reduce the temperature and continue cooking. Do not cover the meat and do not add water. If meat is cooked in this way the juices are held in, and the meat loses little of its flavor. The drippings, however, usually have enough flavor to form the basis of the gravy. Tender cuts are cooked until rare, medium, or well done, according to personal preference. A meat thermometer removes the guesswork in roasting. Beef is rare between the temperatures of 130 and 150 degrees Fahrenheit, medium between 150 and 170 degrees, and well done at about 180 degrees.

"The less tender and less expensive cuts of beef can be made into attractive and delicious dishes when they are cooked properly. The general method of cooking less tender cuts differs from the method for tender cuts

SUNDAY DINNER

Cream of corn soup — Croutons
Rib roast of beef — Brown potatoes — Gravy
Buttered carrots
Bread — Butter — Gooseberry preserves
Cabbage and pineapple salad
Fruit gelatine — Coffee

MONDAY DINNER

Rechauffe of beef — Creamed potatoes
Bread — Butter — Corn relish
Beet salad
Chocolate pudding — Tea

TUESDAY DINNER

Pork chops de luxe — Escalloped potatoes
Fried cabbage
Cornmeal muffins — Currant jelly
Waldorf salad
Tapioca custard — Coffee

WEDNESDAY DINNER

Veal stew — Dumplings
Bread — Currant jelly
Cole slaw
Orange custard — Coffee

m the steps which must be taken to make tough meats tender. Heat, moisture, and slow cooking help to accomplish the desired results. First, sear the meat, usually in fat, until it is browned. After browning, reduce the temperature, add a small quantity of water, and cover the meat tightly. Cook slowly until tender. The small quantity of water which is added in cooking extracts some of the flavor from the meat and makes a good gravy."

While the rules as given above are stated specifically for beef, they apply in general to the other meat animals.

Here are three recipes that you may wish to follow in preparing the Sunday dinner menu given in the box on this page:

Cream of Corn Soup. Cook together in a double boiler 1 can of corn, 1 quart of milk, 1 teaspoonful of salt, 1 slice of onion, a little pepper and a bit of bayleaf. Cook for 30 minutes; this method flavors the milk more highly with the corn. Rub thru a sieve. Melt in a saucepan 2 taplespoonfuls of butter and smooth into it 2 tablespoonfuls of flour. Add gradually the corn and milk, and stir until thickened slightly.

I find the easiest way to make croutons is to cut the bread in cubes before toasting, put them into the oven and stir occasionally until they are browned on all sides.

Rib Roast of Beef. Select a two or three rib standing roast. Less than this does not make a satisfactory roast. Wipe with a damp cloth, sprinkle with salt, then slightly with flour. Place the roast in an open pan without any water and with the fat side up. This makes basting unnecessary, for the fat, as its melts and cooks out, will baste the meat. Thru the fat covering insert a meat thermometer so that the bulb reaches the center of the roast. Place the meat in a hot oven (500 to 550 degrees Fahrenheit). Sear the meat for 20 or 30 minutes; then reduce the temperature to 350 degrees, and continue cooking until the roast reaches that degree of "doneness" relished by your family. For a rare roast take the meat from the oven when the thermometer reads 140 degrees; for medium well done, the reading will be 160 degrees; and for a well done roast 180 degrees.

If you do not have a meat thermometer you will have to rely upon the time of cooking. A three-rib roast cooked rare will require 15 minutes per pound; medium, 18 minutes per pound, and well done 20 to 22 minutes per pound.

Cabbage and Pineapple Salad. Have ready 2 cupfuls of finely chopped cabbage. Mix with the contents of a small can of crushed pineapple, drained. Season with salt, paprika, and 1 teaspoonful of grated onion, and blend with mayonnaise. Serve on a lettuce leaf or a cabbage leaf reserved for this purpose.

While there are many who say that a left-over should not immediately follow its initial appearance on the table, I see no particular objection, since an effort should be made to have the left-over as little as possible like the original. In planning Sunday's dinner, it is just as well to provide for Monday which is usually a busy day in the household.

Réchauffé of Beef. Cut the cold roast beef into thin slices and arrange on a fireproof platter. Spread with onions that have been fried in butter. Sprinkle with 2 tablespoonfuls of minced parsley, heat thoroly and serve.

For Tuesday, a change in meat flavors is in order. Pork makes a pleasant contrast with the beef that preceded it.

Pork Chops de Luxe. Have the required number of pork chops cut 1½ inches thick. Dredge with flour, season with salt and pepper, and brown well on both sides. If the flavor is liked, a piquancy is given to the meat by putting in with the chops while they are browning, a clove of garlic and then removing it. When the chops are browned, add a little water, cover closely and cook slowly from 45 minutes to an hour. Add water from time to time as that in the pan cooks away. Cooked in this way the chops are glazed and so tender they may be cut with a fork. In cooking any cut of pork, it should be borne in mind that this meat should be cooked slowly for a long time.

Escalloped Potatoes. Ordinarily, the milk around escalloped potatoes is curdled. If a thin white sauce is used instead of plain milk, this will be overcome.

Wednesday's dinner, while quite simple, is just as appealing as the others.

Veal Stew. Have 2 pounds of veal

(Cont. on page 102

THURSDAY DINNER

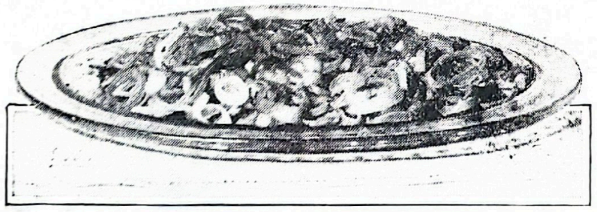
Stuffed flank steak — Baked potatoes
Baked onions
Grapefruit and celery salad
Bread — Butter — Plum conserve
Ice cream with chocolate sauce
Coffee

FRIDAY DINNER

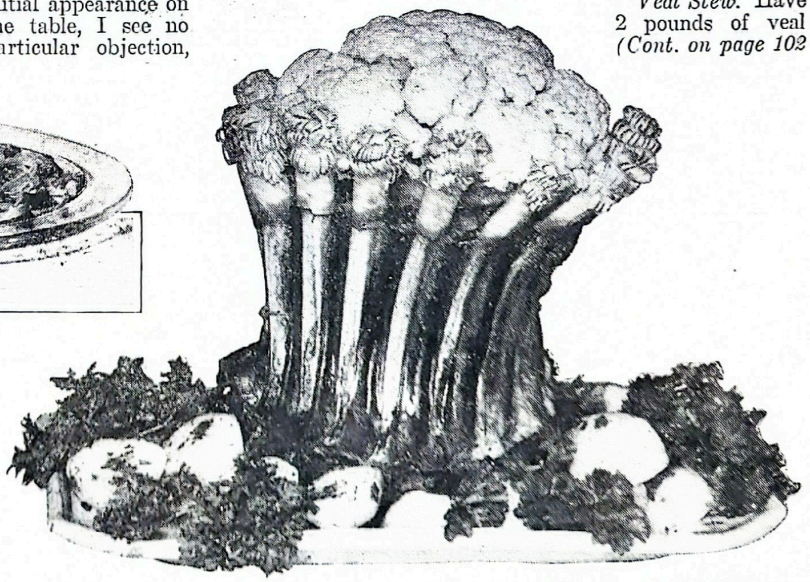
Cream of tomato soup — Saltines
Baked eggs or Fresh pork loaf
Hot apple sauce — Baking powder biscuits
Silver and gold salad
Coffee

SATURDAY DINNER

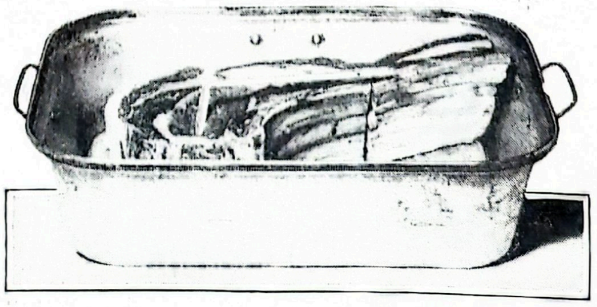
Fruit cocktail — Cheese straws
Stuffed celery — Olives
Mock duck or Crown roast of lamb
Parsley buttered potatoes
Buttered peas — Clover leaf rolls
Spring green salad
Green gage plum ice — Sponge cake
Green and yellow mints — Coffee



Thin slices of cold roast beef arranged on an oven-glass platter, topped with fried onions and minced parsley, and the whole thoroly heated: that is rechauffe of beef



Crown roast of lamb is another meat dish that the market man will prepare for you. Filled with cauliflower or green peas and surrounded by parsley and potatoes it is truly regal



A meat thermometer (the bent glass tube which you see inserted in the lean portion of the rib roast at left) makes certain that the roast will always be as you like it

Equalizing Food Costs

Wise Spending Requires Thoughtful Planning

MILDRED WEIGLEY WOOD

HOW do you know what it is costing you for food till the end of the month? How do you decide whether you can afford a leg of lamb to roast for Sunday dinner? How do you prevent a feast and then a famine in your household? These and similar questions have to be answered in some way by every homemaker who is trying to provide satisfactory food for her family within a fairly definite cost per month. It may be disastrous to wait till the end of several months to find out whether we are keeping within our food budget, so we hunt about for some means of checking our plans in order that we do not have to force our families onto a bread and water diet to make up for an overabundance of delicacies at some previous time. There is more than one way of avoiding this undesirable situation.

One of these might be called equalizing the month's bills. This means keeping a careful account of one month's food cost, for instance, May, and if it has gone over the amount planned for food, figure out ways of supplying sufficient food more cheaply for June. Maybe it will mean going over the cupboard stores and planning menus in part, at least, according to what is on hand. If this is done it is well to remember that if the cupboard is really made bare, it will have to be replenished the next month. In other words, it may not be wise to rob Peter to pay Paul. On the other hand, there is often an accumulation of supplies in the cupboard which at frequent intervals should be "turned over" like the stock in a store to make ready for new and to prevent carrying over goods to the point where they deteriorate. Use perishable foods first, of course.

A good time to do this turning over of stock is when we need to reduce food cost. Thus, the use for several purposes of brown sugar and molasses which are on hand may make it possible to stretch the granulated sugar in the bin so that it does not have to be reordered that month. The using up of a stock of macaroni, rice or noodles may lower the actual amount to be spent for potatoes that month, and the use of cocoa, which is on hand, to replace chocolate may further reduce expenditures

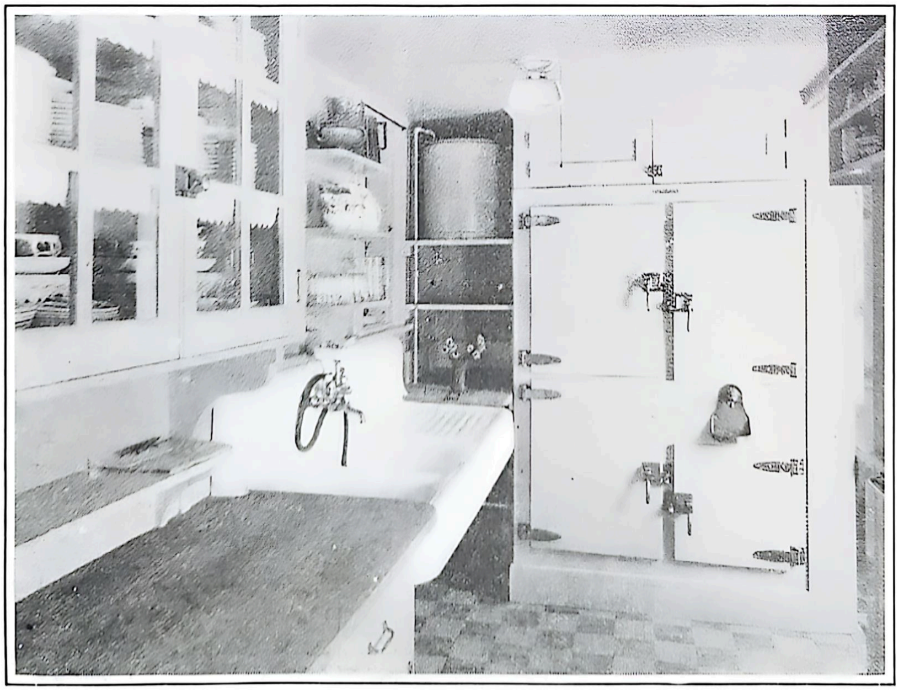
MORE inexpensive meats than usual will help to keep this second month's cost low, and lessened variety of fruit and vegetables (for variety does cost) with a frequent use of the cheapest available ones will further diminish the bills. Such a plan as this which anticipates one month making up for the other, while legitimate and often necessary and useful from the standpoint of keeping expenses averaged and within the allotted sum, yet has the disadvantage of being difficult to use if uniformly satisfactory food is provided the family. The economies one month are likely to be too noticeably pronounced and some members of the household are likely to rebel inwardly at least at the lessened variety. Since one of the management problems of food which the homemaker must meet is securing family appreciation and satisfaction at the same time that she keeps cost down, she will not be willing to use a plan continually which makes her household feel that she has let her standards drop. If this proves to be the reaction to such a plan there are other ways of averaging cost.

I like the scheme which keeps the cost averaged within a given month thru the planning of meals from day to day and thru the purchases of the week. Averaging food cost (*Continued on page 75*

Are You a Good Manager?

BEING thrifty does not mean being stingy, or mean, or continually worried over the cost of things that we eat. It means deciding first of all how much we should spend for food each week or each month, considering our income and the needs of our family, and then so planning that we neither spend far more nor less than the allotted amount.

The way to begin, as Mrs. Wood points out, is first to keep simple accounts for a month. Soon planning becomes almost automatic, and we need waste no more time wondering, "Let's see, I wonder how much butter I shall need this week?" or worse yet, buying wastefully half a pound today and another half pound tomorrow. Being thrifty means, above all, being a good manager.—*Editor.*



An important detail of this kitchen is the narrow ledge on which pencil and notebook for accounts find a permanent place. Shelves above the sink are useful, and a water cooler connected with the electric refrigerator is convenient

New Rooms *from* Waste Spaces

How the attic, basement and porch can be made livable, comfortable and attractive the year 'round with Celotex, the amazing cane-fibre building board that stops heat, cold and dampness.

Now it's a nursery! Once this was a dusty old attic, where the sweltering heat in summer and the bitter cold winds of winter made the space fit for only rubbish and old trunks and furniture. A few big, strong boards of Celotex, a few hours' time, and this comfortable, charming nursery was the result. The Celotex boards were nailed right to the attic joists and rafters. Note the stencil decorations on the walls and ceiling. Celotex is adaptable to any decorative scheme.

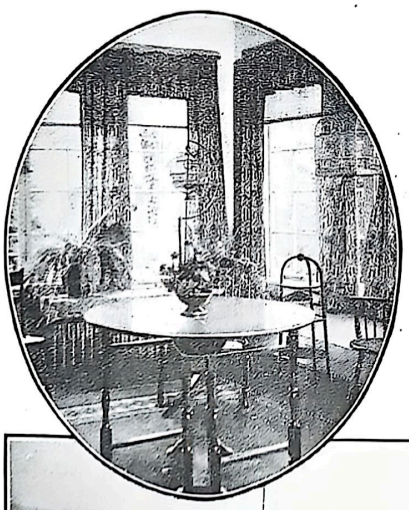
NO longer is it necessary to let space in the attic and basement lie idle . . . and open porches can be made into sun-porches usable the year 'round.

It is not an expensive improvement to make new rooms out of these waste spaces, if Celotex is used. They are *livable* rooms, too—for Celotex stops heat, cold and dampness. Celotex is easy to use for it provides efficient insulation *in board form.*

The big strong boards of Celotex are only half as heavy as wood, yet make walls stronger. They are without grain and will not warp, crack or split. Each board is 7/16-inch thick, 4 feet wide and 7 to 12 feet long.

Celotex boards are made from the long, strong, tough fibres of cane. Nature seems to have made these wonderful fibres to be fabricated into boards, for they interlock together as no other fibres will, yet with millions of air cells between them. These air cells give the boards their extraordinary insulating value.

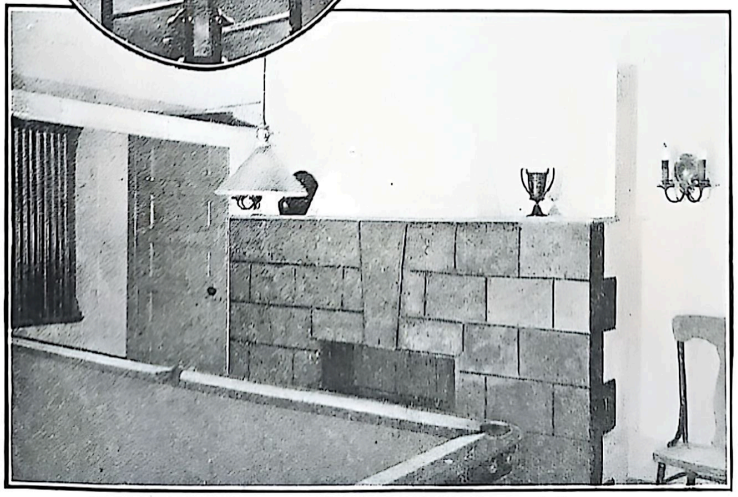
And Celotex is the only insulation made from cane fibres. This board combines to a remarkable degree extreme lightness with great strength and the ability to stop heat, cold and dampness.



This sun-porch heats itself when house doors are left open. Here the Celotex is not plastered or papered. Its soft textured surface is its own decorative treatment.

In the attic, in the basement, on the porch—these are only a few of the many, many places in and around the house where Celotex is useful. No doubt you can think of a half dozen odd jobs around your place now where this cane-fibre board would be just the thing for stopping the ravages of withering heat, freezing cold and decaying dampness.

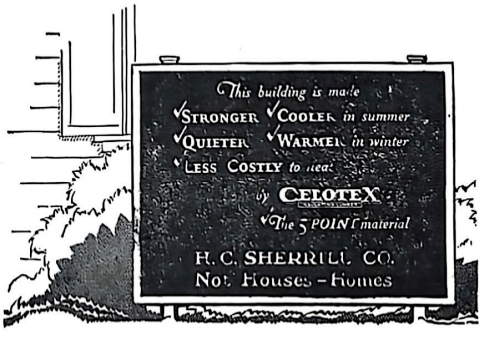
Try Celotex on any of these jobs and see! All reliable lumber dealers can supply it. If you have any difficulty getting it, write us for the address of a dealer who can supply you. We will also send you a FREE copy of our illustrated book, "Year 'Round Comfort with Fuel Saving." The Celotex Company, Chicago, Ill. *In Canada:* Alexander Murray & Co., Ltd., Montreal.



No, this is the basement. Is one-third the space in your house—the basement—going to waste so far as livability is concerned? Do what the owner of this house did with a few boards of Celotex, some plastic paint, and a little thought: build a basement living room. Celotex is just the thing, for the walls and ceiling, because it prevents the condensation of moisture and makes the room dry, yet cool in summer and warm in winter.

CELOTEX
INSULATING LUMBER

When you buy a new home, this sign will guide you to houses that are well built and to builders who build well.

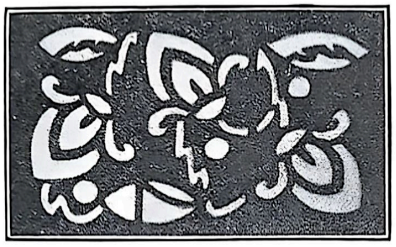


Adventures in Home Beautifying

Modernistic Designs, Crewel Embroidery and a Hooked Chair Seat Vie for Place in the Living Room

RUBY SHORT MCKIM

NOW, praise be to Allah, living room really means the room in which we live! You have read of spacious southeast rooms whose blinds were drawn, whose tufted plush was covered with winding sheets, and whose glory saw the light only during pastoral calls, funerals



A piano bench pad and piano scarf or table runner are provided in pattern No. 523. These designs are for cut felt or velveteen

or such long-to-be-remembered occasions. But imagine keeping the sons and daughters of this generation in awe of a mere room!

For this living room, in which we really live, the best that we can afford is none too good. It may have to compete with clubs, lodges, movies, or what have they. It must be the spirit of home, happily, livably expressed in comfort, cheer, beauty. The above mentioned sons and daughters should be proud to bring their friends here. Let's do something now, and then again before long to freshen and enliven the living room.

Unfortunately what to do cannot be dosed out of one bottle as a cure for all rooms. One where everything is grand and stately may be chill for want of a vivid painted shawl. This adds a glow of color to the grand piano or more warmth than half a dozen pillows to the davenport.

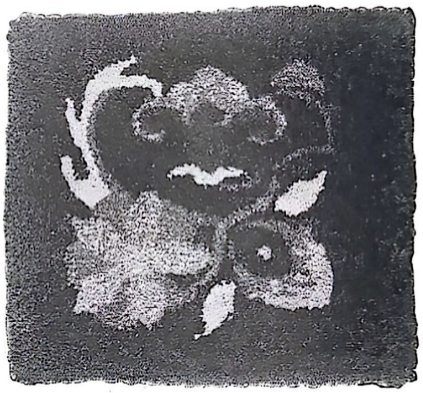
THE shawl designed for you is highly modernistic and rhythmical, a brilliant treatment of conventionalization featuring black, violet, American beauty, and rose with a swirl of yellow and greens across in contrast. Every section is clearly outlined and in flat color, which means no shading or special handling of the paints, so that the veriest amateur can do it perfectly. Wax transfer pattern No. 533, 34 inches square, preferably for a 40-inch square of silk, with instructions and color chart, is priced at 75 cents.

Shawls are as distinguished and individual for interior decoration in the luxurious room as for exterior decoration on milady. Of course there is no law preventing that afore-mentioned daughter from wearing this shawl on occasion. Description of paints for doing this number will be found at end of article.

Do not think we are passing by the home which boasts no baby grand. Next we offer a scarf for the upright piano, with bench pad to match. These are cleverly designed for cut felt, or velveteen could be used, and should appeal to the busy woman as they certainly offer a maximum of effectiveness with small effort.

The swatches of blue, rose and sand are glued on the under side after the design is cut out. Press it under a weight, whip on a sateen lining, add tape ties for the piano seat and there is your set. Yellow wax transfer pattern No. 523, in two sizes (four complete designs), costs 35 cents. We also furnish them stamped on best quality black felt with colored felt patches to make up complete. No. 524 for the piano top, or for a long table, 72x15 inches, best black felt, $2.25. No. 525 for the bench (36x18) with design stamped on each end, $1.75. No. 526 for a table runner, 18x54 inches, is priced at $2.

The hooked chair seat or stool top is a sort of request number. This charming design in tones of rose, blue, mulberry, green and gold on a black ground is designed to harmonize with any conservative furnishings. There are nine colors in small amounts, with about 8 ounces of black for the background, 19 ounces in all, for the average size chair seat. The design itself is about 12x12, stamped on a stout burlap 18x22 with color plan and instructions. Order No. 527 at $1 a chair seat, or $5 for a set of six. This can be stamped on any given larger size for 10 cents additional. The yarn assortment of 19 ounces for each chair seat is order No. 528, priced at $3.80, postpaid.



This hooked chair seat is a "request number." Order No. 527 at $1 each or $5 for six, supplies the design stamped on burlap; No. 528 supplies the 19 ounces of yarn at $3.80. Wool or silk rags may be used instead of yarn

You can make this gorgeous painted shawl, for draping on a baby grand piano or over a stair railing. Wax transfer pattern No.533, 75 cents, provides for a 40 inch square

Nobody could be blamed for coveting a piece or two of that fascinating lacquered furniture which so charmingly blends yet contrasts with the sober dignity of our mahogany and walnut. In

In Turquoise Amber and Matisse Pink

Mrs. JOHN ALDEN CARPENTER

Mrs. Carpenter, widely known in artistic circles in this country and abroad, is the wife of the famous composer. She has one lovely daughter.

As president of the Arts Club, —her rare decorative genius is interestingly established. The smart Casino Club is one of her outstanding successes. She also did some of the rooms at the Racquet Club, the Harvard-Yale-Princeton Club and the delightful dressing rooms of the Palace Theatre. It was Mrs. Carpenter who designed the memorable gay tented city for the Woman's World's Fair, who is continually lending her ingenious ideas for charity affairs.

A Bedroom for a Young Girl
by Mrs. JOHN ALDEN CARPENTER

AN ingenious choice of decorative pieces—a chic and unusual arrangement give this enchanting *chambre de jeune fille* by Mrs. Carpenter its youthful charm.

Crisp amber draperies over pale pink are cleverly hung from the side rather than the center. The Simmons furniture is of that bewitching blue that has stolen the cool magic of green. The dressing table is of creamy lace over flesh colored satin. Its circular mirror (like a silver sun) smart and very modern, is an amusing touch . . . Over the bed hangs a fragile canopy, sheer and graceful, of the same lace as the dressing table.

Other small touches have great individuality, too. "The portrait," Mrs. Carpenter says, "resembles a charming little French girl I know. Feather flowers and a lamp mirrored and rimmed in gold add gayety and charm." A final accent is found in the carpet—of white velvet with vivid red roses.

* * *

Very appealing is this Simmons Bed, No. 1581, chosen by Mrs. Carpenter for the *jeune fille* room. Smartly clean cut it captures the simplicity of youth.

Like all Simmons Beds it is perfect in construction and may be had in a variety of wood finishes—mahogany, maple, walnut, as well as cheery color schemes. Being made of metal it is practically indestructible and its smooth finish will never chip.

Simmons Bed No. 1581, $32.75; Rocky Mountain Region and West, slightly higher; other Simmons Beds, $10 to $60; Simmons Mattresses $10 to $100; Simmons Springs, $7 to $60. The Simmons Company, New York, Chicago, Atlanta, San Francisco.

SIMMONS

BEDS · SPRINGS · MATTRESSES · {*BUILT FOR SLEEP*}

Now

FOR ONLY $1.00
you can try toned light *in your own home*

by Helen Richmond

"You've done it," I exclaimed, when I heard about the Special Get-Acquainted Offer. "You've made it possible for thousands of women who thought *Columbia* Window Shades were expensive, to see them in their homes at less than cost."

Every woman who loves beautiful things for her home will sympathize with my enthusiasm at first sight of one of these lovely new window shades.

Just imagine these new tone-color window shades in your own home. Here is something out of the ordinary yet not "radical." Inconspicuous—in perfect taste—these tone colors add one of those distinctive touches that gives charm and individuality to a room.

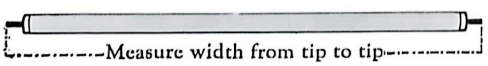
And seven lovely tone colors! Make your choice from Chamois, Strained Honey, Egyptian Sand, Persian Gold, Plaza Gray, Etruscan Ivory and Circassian Brown—colors as beautiful as their names suggest. And remember that these are the famous *Columbia* tone-color window shades. They *tone* daylight—filter out the harsh, eye-straining glare of the sun's rays—and fill your rooms with a soft, mellow radiance. It is the secret of restful rooms. For a full explanation of this fascinating toned-light idea, send for your copy of the interesting book, "Beautiful Windows."

And don't overlook the Special Get-Acquainted Offer that the *Columbia* Mills people make to you.

Somewhere in your home is a room with only one window—the bathroom or upstairs hall—in which you can "try out" your new *Columbia* tone-color window shade. Fill in the coupon now as this Special Get-Acquainted Offer is only open until May 30th.

Special Get-Acquainted Offer

So that you can see one of these beautiful new shades in your own home, we offer for a limited period, *one only* at $1.00—less than cost—in any size up to 36 inches wide. Take the measurement as directed, select the color you prefer from the list above, pin your remittance to the coupon and mail to us at once as this offer closes May 30th. Your shade will come to you mounted on one of the famous *Columbia* rollers insuring you freedom from the petty annoyances common with ordinary rollers.



Mail this coupon before midnight, May 30th

Columbia Mills, Inc., 225 Fifth Ave., New York, N. Y.

( ) Please send the test shade. Enclosed is $1.00, the special price.

Width (tip to tip).....Length.....

Color.....

( ) Please send me "Beautiful Windows," for which I enclose 10c.

Name.....

Address.....

City.....State.....

B. H. & G. 5-28

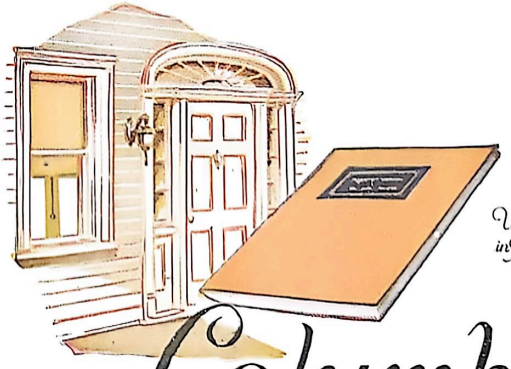
The tone-color shade in the room illustrated resembles the tone-color *Etruscan Ivory*, as closely as possible in a printed advertisement. Among other popular *Columbia* Tone Colors are *Egyptian Sand*, *Chamois*, *Persian Gold*, *Strained Honey*, *Plaza Gray*, and *Circassian Brown*. (Color names Reg. U. S. Pat. Off.)

How great decorators are using Columbia tone-color window shades

All very well to discuss the general principles of toning daylight—but perhaps you'd like to know exactly how these principles should be applied in your own home.

"Beautiful Windows," by a well-known New York decorator, was written to meet just this problem. It answers 12 most important questions about windows and shows 18 beautiful illustrations of actual interiors, with a simple explanation of how in each room the light was toned to best effect with *Columbia* tone-color window shades.

For your copy of "Beautiful Windows," send 10 cents to *Columbia* Mills, Inc., 225 Fifth Avenue, New York City.



Used Everywhere in Beautiful Homes

Columbia

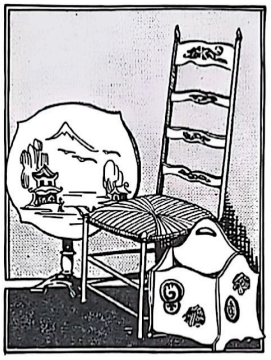
GUARANTEED

WINDOW SHADES *and* ROLLERS

© 1928, The *Columbia* Mills, Inc.

museums we see wonderful old screens and square cabinets that came from China on the tea ships of the seventeenth century. Altho today we have neither the patient artistry, nor the original tsi tree gum lacquer, there are many lovely pieces being made by enthusiastic amateurs.

Our offering of designs for lacquer pieces, a group of three pattern sheets, with instructions and carbon paper for tracing, is No. 529, at 50 cents. One design is morning glories in two sizes for chair backs, drawers or any place where a horizontal motif fits; another is a group of four conventional discs of Chinese type, which are especially decorative in gold, spotted at irregular intervals on any painted piece in red, green or black (such as the Chinese chest made from an old hall tree described in this issue). Third is a group of typical pagodas, small figures, willow trees and a bridge which may be used "as is" on a tip table or magazine basket or spread apart a bit for a radio cabinet or desk.



Order No. 529, at 50 cents, consists of 3 sheets of designs for lacquered pieces as at left, with instructions and carbon paper for tracing

THE technique must be precise, but one can well afford to be particular to acquire even a small piece that suggests this glorious craft of long ago.

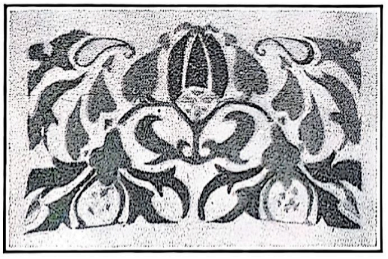
There are so many delightful things that might be offered, any one of which could be just the thing for your living room, that it is hard to stop with these designs. The curtains offer such choice of texture and technique, however, that this is almost a double number. Crewel embroidery on either coarse linen or Scotch cloth makes an enduring and really classical choice to use with almost any interior of the American type. The design is of Jacobean period, which inspired this handling in wool. One author catalogs some thirty stitches, any and all of the old favorites to be used in crewel; or a continuing chain stitch, as shown in the cut, fills in rapidly and is lovely.

If you prefer the quick method of painting, merely stamp on rayon or heavy pongee, paint in as directed, and the result is beautiful. You can do it easily.

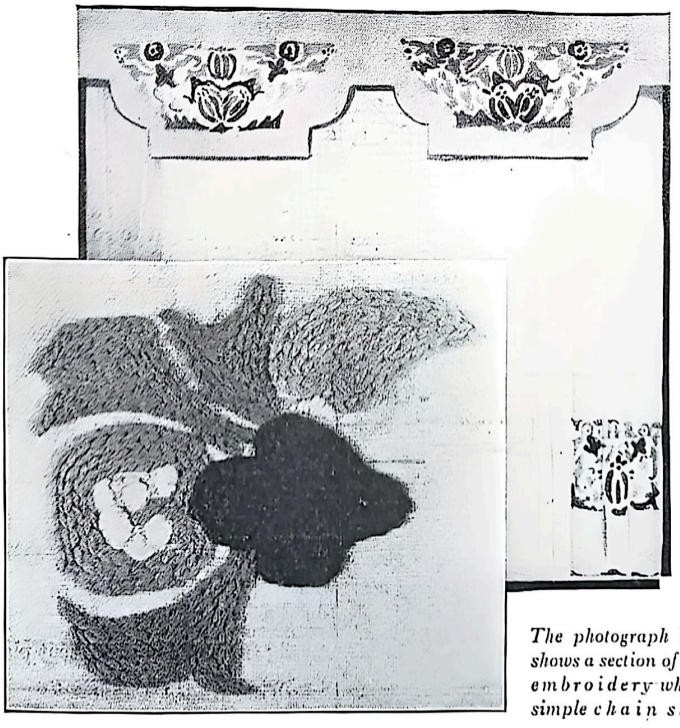
Pattern No. 530 consists of two single window valance motifs to use together as sketched for a wide window, and two side drapery designs, in black wax transfer form. The four designs complete with instructions and color chart will be sent for 35 cents.

The paint or dye sets with which shawl and curtains were made are for sale in many art stores, or *(Cont. on p. 65*

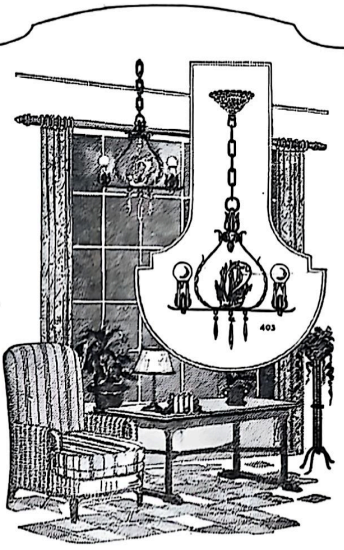
Transfer pattern No. 530, black, 35 cents provides two single motifs for valances and two for side draperies, to be painted or embroidered in crewel stitch



Design No. 530 painted on heavy pongee



The photograph at left shows a section of crewel embroidery which is simple chain stitch



and in the evening

....hushed strains of the radio ....the cheerful hum of friendly voices....sturdy youngsters seriously engaged in the age-old game of make-believe—a room of *light*—of moods—of inspiration, the sun room.

Give to your sun room, when evening shadows fall, the same air of spacious charm it expresses by day.

There must be light—plentiful but softly shaded. The design and finish of ceiling and side lights—table and floor lamps—must permit of no false note of discord to disturb the artistry of your decorative scheme!

The style-authority of Moe-Bridges lighting equipment is unquestioned the nation over. For every room—for every home—Moe-Bridges fitments embody that rare beauty and grace of line usually found only in expensive, hand-built designs. Yet their cost is well within your means.

You will find many helpful suggestions in our new and authoritative booklet on home lighting, "When Evening Shadows Fall." Sent upon receipt of coupon.

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ARTISTIC LIGHTING EQUIPMENT

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MOE-BRIDGES CO., Milwaukee Dept. F-85
Please send me your instructive, free booklet on home lighting, "When Evening Shadows Fall."
Name.....
Address.....
City.....State.....

Write for a free copy of this valuable 56 page garden guide.

The *Right Tools* to Make Your GARDEN GROW

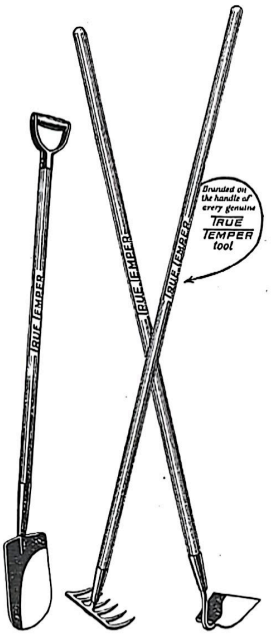
Gardening without the right tools is like driving an automobile with one flat tire—slow and without pleasure.

Be your garden large or small, the tools shown here make it easy to give, to tiny seedling plants, the tender care that they should have. With these tools you can keep the surface of the soil loose and free from robber weeds, to preserve the moisture and plant food that flowers and vegetables need to make a generous growth.

To aid you in your garden work, write for a free copy of the 56 page True Temper Garden Book shown above. It explains every step in gardening in authoritative yet simple language that the beginner can understand and the veteran will welcome. Please give your dealer's name.

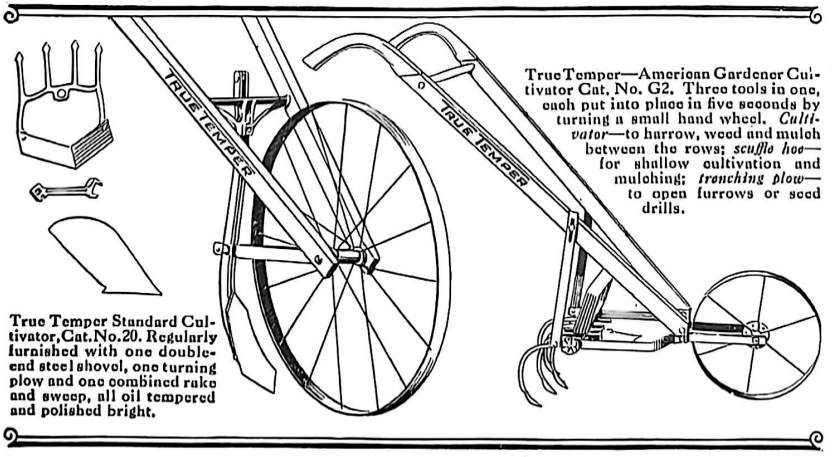
THE AMERICAN FORK & HOE CO.
General Offices: Cleveland, Ohio
Makers of Farm and Garden Tools for over 100 years.

A de luxe set of hand tools especially made for the thousands of women who delight in garden work. Blades forged from special carbon steel and tempered in oil. Handles beautifully lacquered and formed to fit the hand. True Temper Garden Set, Cat. No. 4GS.



A floral set designed especially for ladies' use in the flower garden. Each tool made with the greatest care, with forged steel heads and selected ash handles. Will give a lifetime of service. For the set, ask for Cat. No. 3PF.

TRUE TEMPER GARDEN TOOLS



True Temper—American Gardener Cultivator Cat. No. G2. Three tools in one, each put into place in five seconds by turning a small hand wheel. *Cultivator*—to harrow, weed and mulch between the rows; *scuffle hoe*—for shallow cultivation and mulching; *trenching plow*—to open furrows or seed drills.

True Temper Standard Cultivator, Cat. No. 20. Regularly furnished with one double-end steel shovel, one turning plow and one combined rake and sweep, all oil tempered and polished bright.

The Business of the Household

THAT two can live as cheaply as one sounds pleasing and quite intriguing to a young couple in love, but in cold figures it just cannot be done. Many young people have started married life believing in these magic words, only to find themselves awakened to the realization that to avoid the rocks financially something must be done. We were no exception to this fond delusion. Those first few months of married life, I admit, seem to have no place for household accounts and budgets, but as we are told of the poor, "You shall have them with you always," so it is with household bills.

We started as hundreds of others have started, by buying what we wanted first, and as we said, "living a little first" and saving what was left. As a consequence there was nothing left, so nothing was saved. I deserved no sympathy for all the worry and fretting that followed. My college major had been home economics, but discussing budgets in the classroom seemed so remote from the budgeting in my own home. I decided, however, to summon all my previous training and meet this situation squarely.

With pencil and paper I started to plan a strict budget, strict in the sense that there should be no deviation. A column was set down for this item, and another column for that item, until it spread across the large sheet of paper. Represented there was everything we could possibly need or want to buy. Next I apportioned the income to correspond with each neat, straight column. It looked so business-like and beautiful on paper. This column should total this much, and that column that much, and the grand total equal the income. But when it went into operation! Oh, such a dire disappointment. The only column that came out ahead of the game was the one allotted to "Unaccounted-for Money." I thought I had carefully put down every penny I had spent, but always there was money short, and I did not know why, but I always put it into that fund.

Well, I figured and figured but the budget would not work out, so eventually in spite of my earnest protests, even my tears, my husband burned the entire outfit and, for us, budgeting was over. I realize now that it was not the fault of the budget, but myself. I tried to hew too close to the line, and never took into consideration the fact that a column of figures has a perfect right to go gallivanting over its walls. To me, a budget was a stern and fearful thing—as firm as the Rock of Gibraltar, and as fixed as the law of the Medes and the Persians which cannot be altered.

The burning of the books proved to be the silver lining to my cloud of discouragement. Before I was married I had been a wage earner, each month receiving a nice income. I sorely missed this check when I stopped working, altho my husband never questioned any money I may have spent. Yet I knew there were so many places for all of it, that I ought not to have spent as much as I did. Along with this feeling was the equally unpleasureable one of utter dependence, with some resulting loss of self-respect. And until we hit upon our present plan, "The Business of the Household," I was very much dissatisfied.

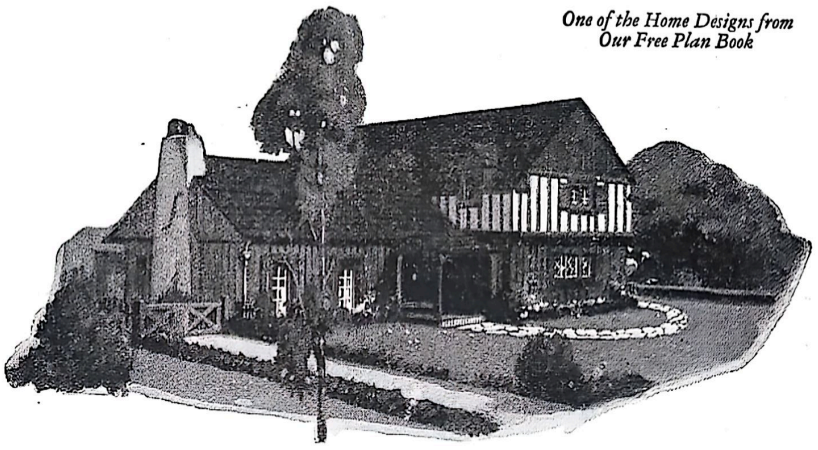
We approached this new plan with some misgiving. We spent many hours in meditation and consultation. Each lent a willing ear to the suggestion of the other, and finally out of the jumbled mass of ideas came our present plan. I figured the amount I would need each month for rent, gas, lights, fuel, and food. Then we decided that each month I was to be given that sum—one hundred dollars. I was to assume all the expenses of the house. My husband was to take the remainder of his salary, and with this he was to pay his insurance, dentist, doctor, clothing, etc., and set aside a certain sum each month for savings. Furthermore, it was decided that neither was to question the other concerning the spending of any funds. The idea appealed to us so strongly that we sealed it then and there with a man-to-man handclasp. We have never been sorry or dissatisfied with the arrangement. It is, by far, the best plan we have tried.

On the first of each month I pay the rent, which is thirty-five dollars, and the gas and light. I also pay the rent of the garage. I really believe my husband should pay this, but as I have been paying it, I shall continue. Each month during the winter I buy a ton of coke, which is thirteen dollars. The foregoing bills total about fifty-five dollars, leaving me forty-five dollars for food.

THE planning of the meals takes much time and careful consideration. I purchase all food myself at a cash store—one that does not feature a delivery system. I watch all special sales, and usually do my marketing between seven and eleven on Saturday morning. Most of the stores in our city have attractive prices during these hours, and fresh vegetables are not picked over. In paying cash I do not hesitate to reject any article if the quality seems inferior, or the price prohibitive. By this plan I am able to buy our food for five dollars per week, having a good variety of foods, including meat once a day. I try to plan meals that are satisfying and also well balanced. I put up my own fruit, some vegetables, as well as jams and jellies. I buy storage eggs for cooking, as they serve this purpose very well, and are fifteen or twenty cents cheaper per dozen than fresh ones. Fresh eggs are used for eating. Most important of all, I believe, is the habit of shopping always with a grocery list. Whenever I go to market I know exactly what I am going to buy, and I never select according to whim or the suggestion of the salespeople. Thus, by careful planning and equally careful buying, I have money left at the end of the month. With this I buy something for myself or for the house. I have my own account at the bank, and my own check book, which is carefully kept. I know always where I stand financially, and if I see something on sale, I know at once whether or not it is possible for me to buy it.

AS I said, the amount I set aside to run my house also includes my clothes. By using a clothes budget, I find I can spend the money more wisely. It is not possible to buy a big article of clothing in one month but by using the amount I have left over from two months I may be able to do it. The sum which is used for fuel in winter, in summer is used for clothes; that is each month during the summer, the coal money is used for clothes. Last fall I used this amount toward my coat.

I have to plan my ward- (Cont. on p. 77



One of the Home Designs from Our Free Plan Book

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for 43 years...

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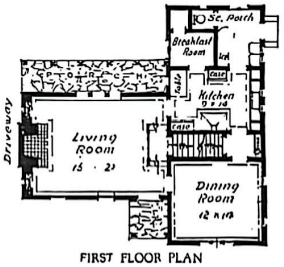
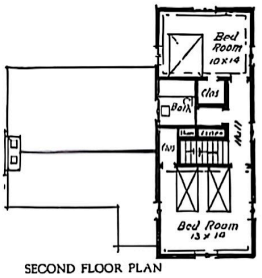


FIRST FLOOR PLAN



SECOND FLOOR PLAN

ROLLAND H. HOLBROOK
Architect
DAVID M. MASON
Associated

During the Civil War a Mr. Timothy Hopkins erected an office building in San Francisco. Its foundations, wet and dry daily with each tide, were of California Redwood.

San Francisco's historic fire destroyed the building. In clearing the site, the foundations were found still sound after 43 years of terrific exposure.

In fact, after a few weeks the lumber was resawn into 1-inch boards, and used to build an office on the water front. *This office is intact today.* Redwood is still proving serviceable under these amazing circumstances, tho milled 65 years ago!

Redwood's phenomenal durability is due to a chemical impregnated by nature into every cell. It renders the wood an unsuitable food for the agencies that cause decay.

Redwood is available to home builders everywhere. It comes in wide clear lengths free from annoying pitch, "stays put," and is the strongest native wood for its weight of 139 varieties tested by the U. S. Government.

Under exposure, Redwood will last for generations. Then too, its natural beauty of grain, texture, and color, render it perfectly adapted to interior paneling, beamed ceilings, trim.

USE REDWOOD—*"It lasts"*

Send for FREE BOOK
"REDWOOD HOME PLANS BY CALIFORNIA ARCHITECTS"

CALIFORNIA REDWOOD ASSOCIATION, DEPT. 185
24 CALIFORNIA ST., SAN FRANCISCO, CALIFORNIA

Please send me a free copy of your book, "Redwood Home Plans by California Architects"

*Name*_____

*Address*_____

*City*_____ *State*_____

The Common Sense of Diet

We Go Back to Grandmother's Experience for Guidance in Child Feeding

GLADYS DENNY SHULTZ

ARE you acquainted with the mother who haunts lectures on child care, takes voluminous notes and always inquires anxiously of the speaker at the end, "Now what is the latest word on raw fruits?" or raw vegetables, or raw eggs, and whose children, in spite of her efforts to keep up with the most recent pronouncements of science, are pale, ill natured, fretful and spindling?

Do you by chance know the mother, also, who is so determined to have her children get their supply of vitamins that she loads their plates with greens, makes them eat altho they touch nothing else that is offered, and cannot understand why they continue undernourished?

The explanation is simple enough. Children cannot be well nourished on one or two foods alone, no matter how excellent these may be in themselves. The mother in the first instance is either not placing before her children a balanced diet, or else she is allowing them to refuse an important part of it. So she is always hoping that some day the new discovery will come along that will correct all her dietary crimes extending over the lifetime of the children.

The second mother, worthy tho her attempt is to see that the children have vitamins, is nevertheless forcing vitamins down them at the expense of other foods just as essential.

It is this sort of food faddism on the part of mothers that dietitians now are warning us against. One very prominent and delightful authority stresses the point whenever she talks to mothers.

Just because we have found something new, it is not necessary to discard all the old proved standbys, she points out. She reminds us, when we are prone to grow too scornful of the dietary notions of our grandmothers, of the apple barrel that stood in the cellar, with nobody to count how many disappeared in the course of a day; the big vegetable garden, where the children ate the green peas out of the pod as fast as they ripened, until it was often a battle of wits to get enough to cook for the table; the raw turnips that tasted so good when they were filched from the garden—what could have been better diet in the light of present scientific knowledge?

Still other prominent dietitians are urging that it is not so important for parents to be up on the latest wrinkle in the science—altho of course that is desirable too—as it is for them to continue to apply the things they already know and to maintain at all times a common sense middle course.

BE sure that the children are getting a good variety with plenty of fruits, vegetables, cereals and the protein foods, be sure they are fed on regular schedule, exclude from their diet pork and rich pastries—without which adults would be better off—and for the rest let the scientists fight it out among themselves as to the age when raw cabbage may properly be fed.

A mother should know something about the fundamentals of diet so that she can tell whether the meals she is serving contain all the elements the children need. In this article we shall try to explain briefly the reasons why the different foods are required by the body.

Most of us know that the constituents of food are protein, carbohydrate, fat, mineral salts, water and certain accessory food factors which we call vitamins. The diet, whether for children or adults, must contain all of these elements in order to promote normal growth.

For the tiny infant all these constituents—with the exception of iron—are gained from the mother's milk. He comes into the world with enough iron stored in his body to last him six months but at the end of that time it will have to be renewed thru feeding. There are also reasons for gradually supplementing breast milk with other food elements, which we will (*Continued on page 95*

Your Child—How Is He Fed?

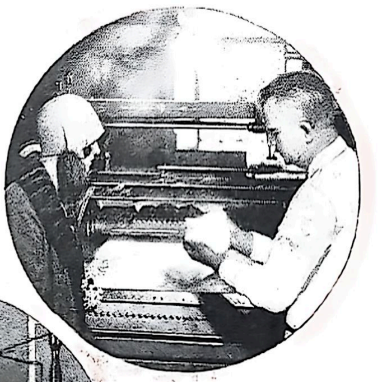
1. Does your child exhibit the signs of the well nourished youngster; that is, bright eyes, good color, firm muscles, good posture, abounding energy, generally pleasant disposition? If so, you may figure that his diet is a satisfactory one.
2. Does your child show any of the signs of malnutrition: dull eyes, sallow color, flabby muscles, poor posture, listlessness, irritability?
3. If the latter, examine his diet. Note down the meals placed before him during the past week. Have they supplied enough meat, eggs, fruits, vegetables, whole cereals?
4. If a proper balance has been served him, has he defeated you by refusing to eat certain articles?
5. Next month's article will deal with how to get the child to eat. In the meantime, prepare your menus carefully with regard to supplying the elements in which his food has been lacking. If he has refused certain foods, make no comment but give him very small servings of these along with equally small servings of the foods he likes. The aim is to give small enough amounts so that he will have to eat all in order to satisfy his hunger, but do not comment if he still refuses the unpopular articles. Give nothing between meals. See if any progress has been made during the next two weeks.

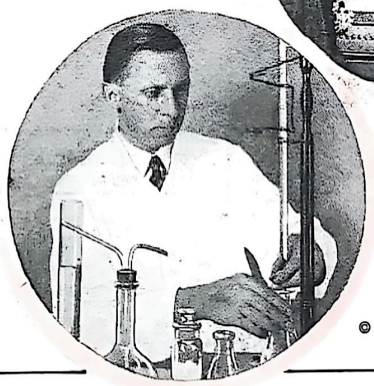
Of all medicines sunshine is the easiest to take

The fresh snowy whiteness of Laundry-washed clothes

WHEN you turn back the snowy, spotless sheets that have come from your laundry, you know they not only look clean and feel clean, but *are* scientifically clean ✤ Yet modern laundry service is simple ✤ It is a story of unlimited quantities of filtered rainsoft water, plenty of pure soap, and scientific knowledge of how to use amazingly gentle equipment ✤ Your clothes are washed without rubbing, and are rinsed in many baths, until every particle of loosened dirt is definitely removed from the fabric ✤ There is a pronounced difference between professional and domestic laundering . . . a difference that strongly emphasizes the fact that laundry-washed clothes *must be cleaner*, sweeter, and longer-wearing ✤ Visit a modern laundry and see for yourself why millions of home managers depend upon such laundries for relief from irksome washday toil ✤

The LAUNDRY *does it best*





Above—The heavy, rich suds which penetrates every fabric pore, gently softening and removing dirt, in a washer with glass-smooth inside surfaces. *Left*—How the hand of science helps protect your clothing . . . every laundry formula is worked out with prescription-like exactness.

Keeping Faith with American Women

THE modern laundries which stand as sponsors for this series of informative advertisements belong to a great group of progressive institutions. Not only is this group endeavoring to tell you the illuminating facts about modern laundry service, but each modern laundry is earnestly striving to keep its methods on a level with the high standards and ideals reflected in these advertisements.

© 1928 L. N. A.

Modern laundries offer a variety of services to suit every family need. All-ironed work, partially-ironed work, and work which returns clothes damp for ironing, are but a few of the many *individualized* services available at laundries today. Phone a modern laundry now—let them help you decide which service is best suited to your needs.

SPONSORED BY THE LAUNDRYOWNERS' NATIONAL ASSOCIATION OF THE UNITED STATES AND CANADA

For Better Housekeeping

Convenience, Comfort and Safety Are Provided by the Articles Pictured Here

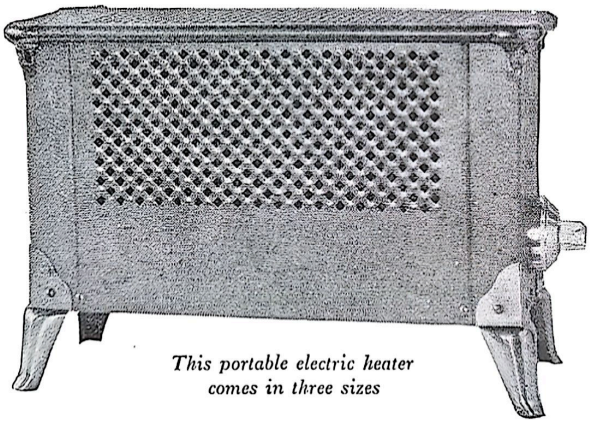
MABEL J. STEGNER

CONVENIENCES that are truly convenient are the desire and joy of every home-making woman. Here are five that live up to the standard set for this page. We proudly introduce them to you, if you have not already made their acquaintance in the shops.

First on the list comes the smallest tool of all: a pastry blender made of stout piano wire set firmly in a gay blue-enameled handle. If you have never tried this means of blending fat and flour for biscuits or pie crust, you simply don't know how much superior it is to the use of fingers, two knives, or a fork.

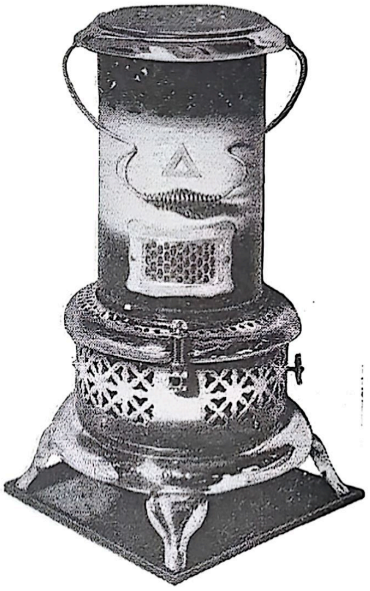
Pastry blenders are really practical

Immediately below the illustration of the pastry blender is shown an electric air heater, which is designed for use on any standard wiring system, and is portable. These comfortable things are made in three sizes, each with three heats, the smallest 250, 500, and 1,000 watts, the largest 1,000, 2,000 and 3,000 watts. They furnish a clean, convenient, easily regulated heat for between seasons, or for the room that needs additional heat. They are finished in bronze, with corner trim and legs of oxidized copper.



This portable electric heater comes in three sizes

At the right of this appliance is a more familiar friend—a portable kerosene heater. Both types are, of course, especially useful in May and September, for the occasional cool day, when the furnace is not running. This kerosene heater, if given proper care, is practically odorless, and will furnish ten hours of heat from one gallon of kerosene. It may be had in blue, brown or white porcelain enamel, and in six other finishes. These portable stoves are also useful in the bath room or any room that needs additional heat in the winter, and is invaluable in the summer camp, for rainy, chilly days will come even when one is vacationing.

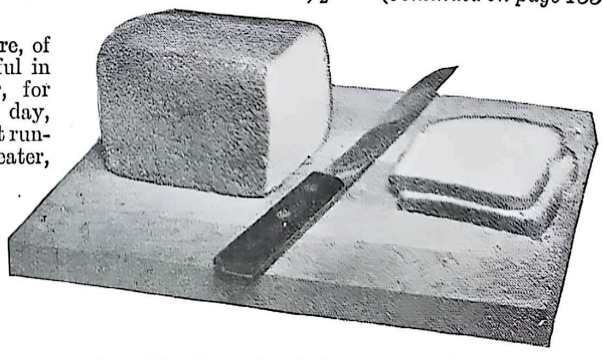


A portable oil-burning heater

A manufacturer of many types of fire extinguishers, when asked recently for information as to fire protection apparatus for the home, replied that contrary to general opinion, the fire gun type suitable for use on motor boats and automobiles was not the most efficient type for home protection. The model recommended and shown here, holds 2½

(*Continued on page 133*

Are you protected against small fires from which terrible conflagrations grow? Every family should have one or more quick fire extinguishers hung where they will be instantly available



A combination of bread knife that really cuts, and conveniently small cutting board, kept near the bread box will save you several steps and possible loss of temper three times a day

Keeping Hair Free From Dandruff

This matter of keeping hair free from dandruff is neither the complicated nor expensive one that most women consider it. Usually the trick can be done by regular shampooing and the systematic use of Listerine, the safe antiseptic.

At the first sign of dandruff, you simply douse Listerine on the scalp full strength, and with the fingers, massage the scalp vigorously forward and backward, then up and down.

LISTERINE

In a surprisingly short time you will be delighted with results. We have hundreds of unsolicited letters testifying to the success of Listerine in checking dandruff. Lambert Pharmacal Company, St. Louis, Mo., U. S. A,

YOU WILL LIKE IT

Listerine Tooth Paste is as refreshing as it is effective—and but 25c the large tube.

"The best part of the party was this luscious dessert!"

THAT is what one enthusiastic woman wrote us after serving her guests with "Bavarian Cream",—a dessert so delightfully luscious to eat that any hostess may depend upon it to make her party a success. A Knox Gelatine dessert always is *different*—it never has that ready-made look and taste. Why not try "Bavarian Cream"?

MAPLE BAVARIAN CREAM
(*6 Servings*)

1 level tablespoonful Knox Sparkling Gelatine.
¼ cup cold water.
1 cup milk.
1 cup cream, whipped.
Yolks of 2 eggs.
½ teaspoonful vanilla.
½ cup shaved maple or brown sugar
Few grains salt.

Soak gelatine in cold water five minutes. Make a custard of milk, yolks of eggs, sugar and salt. Add soaked gelatine and when mixture begins to thicken, add cream and vanilla. Turn into wet mold and chill. Garnish with one dozen cut marshmallows or one cup chopped pecan or walnut meats.

There is enough gelatine in one package to make four different desserts or salads—six generous servings of each. Write for Mrs. Knox's newest book. Free—if you mention your grocer's name.

CHARLES B. KNOX GELATINE CO.
142 Knox Avenue, Johnstown, N. Y.

KNOX
Sparkling
GELATINE
"The Highest Quality for Health"

Cooks' Round Table

Conducted by Better Homes and Gardens Readers

This is your department and its value depends upon the help of every good cook in our family. Send in your favorite unpublished recipes. We will pay for every one used.

Frozen Apricot Mousse

2 cupfuls of pureed apricots, sweetened (canned or dried)
2 cupfuls of apricot juice
½ pound of marshmallows, cut up
2 tablespoonfuls of cold water
½ cupful of cold water
1 cupful of sugar
3 egg whites
½ pint of whipping cream
1 tablespoonful of gelatine

Mix the puree, juice, and cut marshmallows. Allow to stand over hot water until the marshmallows are melted. Cover the gelatine with cold water, then dissolve over hot water and add to the apricot mixture. Boil the ½ cupful of water and 1 cupful of sugar until it threads, and add it to the stiffly beaten whites of the eggs. Combine this with the apricot mixture, add whipped cream and ½ teaspoonful of salt. Cool thoroly, put in buttered mold or freezer and pack in ice and salt for from three to five hours. Serve in tall cups and top with whipped cream. This may also be frozen in the trays of the electric refrigerator.—Mrs. A. W. B., California.

Mint Sauce for Spring Lamb

Chop fine the well cleaned leaves of a bunch of mint and pour over them ½ cupful of boiling water and 2 tablespoonfuls of sugar. Cover closely and let stand in a cool place for half an hour, then add a dash of paprika, ¼ tablespoonful of salt and 4 tablespoonfuls of vinegar. Mix well and serve in a sauceboat or quaint pitcher or bowl.—Mrs. F. G. M., Kansas.

Beefsteak Pie With Potato Crust

1½ pounds of round steak
Salt
2 cupfuls of sifted flour
1 cupful of cold mashed potatoes
½ cupful of shortening
Milk
3 teaspoonfuls of baking powder

Cut the steak into strips an inch wide, and brown in hot fat in the frying pan. Cover with boiling water and let simmer until tender. Add salt and pepper to season and put the meat into a baking dish. Make a slightly thickened gravy out of the drippings and pour over the meat. Sift together three times the flour, salt and baking powder; add the potatoes and work in the shortening. Add the milk and mix to a soft dough. Handling very lightly, roll to fit the top of the baking dish. Cut two slits in the middle of the crust and bake about twenty-five minutes at 400 degrees.—D. L. G., Oregon.

Italian Sandwich Filling

½ pound of dried beef
½ pound of cheese
1 pint of canned tomatoes

Put the beef and the cheese thru a meat grinder. Add the tomatoes, which have been put thru a sieve, and cook slowly together until thickened. When cold, use in sandwiches with a lettuce leaf.—Mrs. C. H. T., South Dakota.

A Dainty

Drop whole dry figs into a flat bowl and cover with grape juice. Let stand over night in the refrigerator. Next morning, open one end of each fig with a sharp knife, insert a nutmeat or a toasted marshmallow, and close the opening. Roll in sugar, arrange on a glass dish, and set in the refrigerator until ready to serve.—M. E. M., Connecticut.

Cream Cocoanut Sticks

1 cupful of white flour
2 cupfuls of whole wheat or graham flour
½ cupful of sugar
½ cupful of shredded cocoanut
1 teaspoonful of salt
½ cupful of sour cream
½ teaspoonful of soda
½ cupful of milk

Mix together the dry ingredients. Into ½ cupful of sour cream, put ½ teaspoonful of soda. When dissolved, add one-half cupful of milk and stir into the dry ingredients until all is barely moistened. The mixture should be quite stiff. Let stand for half an hour, then roll out and cut into sticks ⅛ inch thick and 4 inches long. Bake in a hot oven (400 degrees) until crisp, turning often in order not to burn them.—Mrs. L. L. R., Minnesota.

Apple Macaroon

Peel and core 4 or 5 medium-sized cooking apples into a pie dish. Sprinkle about ½ cupful of sugar and as much cinnamon as desired over the apples. Cream ½ cupful of sugar and 1 tablespoonful of butter; add 1 well beaten egg and a pinch of salt and ½ cupful of flour. Beat well. Spread the batter over the apples and bake in a moderate oven (375 degrees) for about 30 minutes.—Mrs. W. T. C., Illinois.

A Tasty Dish

Form one pound of hamburger into small cakes and dredge with flour. Slice an onion into hot fat in an iron skillet, and place the hamburger cakes in the pan with the onions. Season with pepper, salt, and a little sage, dried parsley and celery leaves. Pour over all one can of vegetable soup. Cover and bake in a moderate oven (350 degrees) until the meat is done, or about an hour. Paprika may be used if desired.—Mrs. A. H. M., Washington.

Delicious Caramel Cookies

1 cupful of shortening
2 cupfuls of light brown sugar
2 well-beaten eggs
¼ teaspoonful of salt
½ cupful of finely chopped nuts
1 teaspoonful of vanilla
Flour
1 teaspoonful of soda
1 teaspoonful of cream of tartar

Cream shortening and sugar, add the beaten eggs, and other ingredients in order given. Use sufficient flour to mix stiff. Form a roll about three inches in diameter, wrap in waxed paper, and let stand overnight in the refrigerator or in a cool place. In the morning slice off in thin slices and bake in a moderate oven (400 degrees). — G. H., Iowa.

Breaded Pork Squares

Buy a slice of fresh pork off the ham, about three-fourths of an inch thick. Cut into small squares for serving. Season with salt and pepper, and dip in fine dry bread crumbs, beaten egg, and again in the bread crumbs. Fry rather quickly in plenty of fat, until brown on both sides. Add a little boiling water, cover, and place in a moderate oven (375 degrees.) Bake for two hours, adding boiling water occasionally a little at a time, to keep it steaming.—M. O. R., Minnesota.

Camp Style Beans

Fry as many slices of bacon as there are people to be served. Remove the bacon from the skillet and add one can of pork and beans and two or three tablespoonfuls of catsup. Heat thoroly and serve.—Mrs. R. W. C., Indiana.

Apple Dumplings

1 cupful of flour
¼ teaspoonful of salt
2 teaspoonfuls of baking powder
3 tablespoonfuls of lard or other shortening
½ cupful of milk, or enough to make a stiff dough

Mix the above ingredients and roll out. Cut into circles the size of a saucer. Place sliced apples on each, dust with nutmeg and sprinkle with sugar, and fold up the edges. Put one pint of water in a small bread pan and add 1 cupful of sugar and ¼ cupful of butter. Bring to boiling, put the dumplings in, and bake in a hot oven (400 degrees) to a golden brown. Serve with their own sauce, and rich milk to pour over them.—Mrs. C. I. H., Oregon.

Corn Fritters

½ cupful of flour
½ teaspoonful of baking powder
1 teaspoonful of sugar
⅛ teaspoonful of salt
2 eggs
2 tablespoonfuls of milk
1 cupful of canned corn
1 tablespoonful of butter
Pepper to taste

Mix and sift the flour, baking powder, sugar, salt and pepper. Add the beaten eggs with milk and corn; then the melted butter. Bake on a griddle, or an electric waffle iron is very good to use for these fritters.—Mrs. N. R. Q., Pennsylvania.

Dainty Molasses Cup Cakes

Cream together 1 cupful of brown sugar and ¾ cupful of butter and lard mixed. Add 1 beaten egg, 1 cupful of molasses, 1 teaspoonful of cinnamon, ½ teaspoonful of ginger, and ¼ teaspoonful of salt.

Into 1 cupful of boiling water stir 1 level teaspoonful of soda, and add to the batter, then fold in 3 cupfuls of flour. Drop in greased muffin tins and bake at 375 degrees for about 30 minutes. This makes 24 cakes baked in muffin tins. They are delicious with a dot of any kind of icing you may have left over from a cake.—Mrs. R. M. W., North Dakota.

Combination Dish

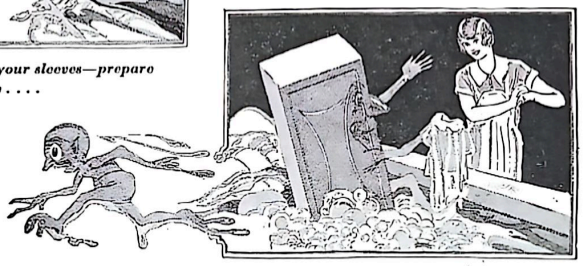
Prick 1 pound of link sausages and place in the oven for ten minutes to remove part of the fat. Pare and cube 1 quart of potatoes and boil in slightly salted water for 20 minutes. Drain the potatoes and put half the amount in a casserole. Next add a layer of thinly sliced onion. Make a third layer of the sausage, sliced. Now add the remaining potatoes, and over all pour 1 pint of canned tomatoes. Cover and bake slowly (300 degrees) for two hours, removing the cover the last 20 minutes to brown.—Mrs. T. C. H., Massachusetts.

Up goes the curtain on a really *clean* movie

1 DIRT, *the* VILLAIN *is hiding in your wash.* YOU *must drive him out!*

3 *But wait! Here is extra help!* FELS-NAPTHA *—good soap and plenty of naptha, working together. He enters your wash.*

2 YOU *roll up your sleeves—prepare for a struggle . . . .*



4 *And out comes* DIRT. *For* DIRT *is afaid of* FELS-NAPTHA. *You are saved—saved the work of hard rubbing.*

THIS little movie is true. Fels-Naptha *does* do away with hard rubbing! For Fels-Naptha brings you two effective cleaners working together—good golden soap blended, by the exclusive Fels-Naptha process, with plenty of naptha.

You can smell the naptha in every bar. And naptha, the basis of "dry cleaning," is a marvelous cleaner. It loosens stubborn dirt. In Fels-Naptha it works hand-in-hand with the soap, loosening the dirt while the rich suds wash your clothes clean and sweet.

Make Fels-Naptha your extra helper. Use it in washing machine or tub—cool, lukewarm or hot water, or, if you choose, boil your clothes. Fels-Naptha washes everything washable, light or heavy. It gets clothes clean with less effort on your part. Its mild, pleasant suds are kind to your hands. And you can use it all over the house—from washing windows to cleaning painted woodwork.

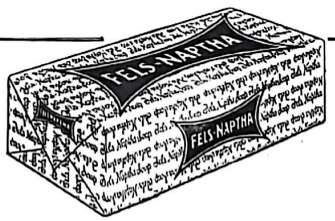
Your grocer sells a lot of Fels-Naptha. Get some today and learn for yourself that "nothing takes the place of Fels-Naptha."

FELS & CO., *Philadelphia*

FELS-NAPTHA

THE GOLDEN BAR WITH THE CLEAN NAPTHA ODOR

© 1928, Fels & Co.



Cool, crisp leaves of lettuce, or romaine, or endive . . . dressed in mild and mellow vinegar and pure oil. How the tender green leaves sparkle and glisten—freshened and flavored with a French Dressing made with Heinz Imported Olive Oil and Heinz aged-in-the-wood Vinegar.

To get the true *vinegar* flavor, vinegar must be aged. We take only the juice of whole, sound apples—and age it in wood from one to two years. It's the only way you can get that mellowness, that aroma—that *flavor*—that you find in Heinz.

Only a real imported olive oil has the true olive flavor . . . You see, Heinz Olive Oil *is* really imported. In sunny old Spain near Seville is the Heinz olive oil establishment. There, from the choicest of the purple fruit that ripens on the olive trees we press Heinz Olive Oil.

For the reputation of Heinz must be maintained. No distance is too great; no method is too troublesome; no time is too long for Heinz in the search for flavor. *Heinz Salad Booklet sent free on request.*

HEINZ
PURE
Vinegars
aged in the wood

H. J. HEINZ COMPANY · PITTSBURGH,

Ice Box Pie

1 pound of vanilla wafers	½ cupful of chopped nuts
1 cupful of sugar	1 small can of shredded pineapple
½ cupful of butter	

Cream together the butter, sugar, pineapple, and nuts. On a layer of vanilla wafers place part of the mixture, repeating until the wafers and the mixture are used up. Let stand in the refrigerator for 24 hours, then slice and serve with whipped cream.—Mrs. B. E. P., Kansas.

Breakfast Bacon

Slice the bacon a little thicker than usual, and let it soak for ten or fifteen minutes in vinegar. Roll in corn meal and fry. This gives a delicious flavor and the bacon is crisp. A thick brown gravy may be made and poured over the bacon. —Mrs. A. W. A., South Carolina.

Casseroled Vegetables

6 potatoes	1 onion
1 cupful of peas	¼ cupful of cooked rice, or bread crumbs
1 cupful of tomatoes	Beef broth or hot water
1 medium-sized carrot	

Salt, pepper, and butter

Dice the vegetables and arrange in layers in a baking dish, covering with the rice or crumbs. Dot butter on the top and add enough liquid so that it can be seen. Bake slowly, at a temperature of 350 degrees, leaving cover on until half done. Bake at least 1½ hours, or until the vegetables are tender.—Mrs. W. D. M., Nebraska.

Lady Cabbage

Chop, not too finely, a small head of white cabbage. Soak in ice water for an hour, drain, cover with half water and half milk, and cook uncovered for half an hour. Drain the liquid, and thicken it with flour and butter rubbed together. Season with salt and pepper, turn over the cabbage and cover with buttered crumbs. Bake at 400 degrees about 20 minutes, or until browned.—Mrs. C. S., Wisconsin.

Orange Pudding

1 cupful of sugar	1 egg
1 tablespoonful of flour	1 cupful of water

Cook all these ingredients in a double boiler until thick. Cool, and pour over three or four oranges which have been cut in slices or dice. Chill. When this mixture is cold, stir in ½ pint of whipped cream and serve.—Mrs. C. J. G., Ohio.

Fancy Popcorn Balls

Use 3 quarts of popped corn, which has been popped slowly. Pick out all the kernels that do not pop. Put into a large kettle and mix roasted peanuts, almonds or English walnuts with the popcorn. Melt 1 tablespoonful of butter in a saucepan, and add 1 cupful of molasses and ½ cupful of sugar. Boil until it is brittle when tried in cold water. Pour the molasses mixture over the popcorn and shape into balls.—S. H., Virginia.

Rice Surprise

1 cupful of rice	1 cupful of sugar
4 cupfuls of boiling water	1 tablespoonful of butter
1 teaspoonful of salt	½ pint of whipping cream

1 can of pineapple

Wash rice and cook in salted water until tender. Turn juice from pineapple and boil with the sugar to a thick sirup. Add the butter, then the pineapple shredded or diced, and cook for five minutes. Then mix with the rice. Serve covered with whipped cream, flavored with one-half teaspoonful of vanilla.—L. W. H., New York.

Glorified Gingerbread

4 tablespoonfuls of fat
¼ cupful of maple sirup
1 beaten egg
½ cupful of sour milk
½ cupful of sugar
¼ teaspoonful of cloves or allspice
1½ cupfuls of flour
⅝ teaspoonful of soda
½ teaspoonful of salt
¼ teaspoonful of ginger
1 teaspoonful of cinnamon

Beat the liquid ingredients thoroly. Sift all the dry ingredients together and add to the liquid ingredients. Beat until thoroly mixed. Spread in a large shallow pan, sprinkle with cinnamon and a cupful of walnuts or hickory nutmeats, and bake in a slow oven (325 degrees) about 35 minutes. When done, cut in squares, heap high with whipped cream to which a dash of cinnamon has been added, and serve. The maple sirup gives it a delicious flavor.—Mrs. E. M. A., Missouri.

Hot Tamale Pie

Boil 1 pound of boneless stew beef with a button of garlic until the meat is tender and there are about 3 cupfuls of broth left. Remove the meat from the broth and grind with a medium sized onion. Add chili powder to suit the taste. Add enough cornmeal to the broth to make a thick mush. Arrange alternate layers of mush and meat in the top of a double boiler, and steam from 1½ to 3 hours. When done, turn out on a plate and serve hot.—Mrs. L. S. O., Arkansas.

Lima Beans and Celery Salad

Mix 2 cupfuls of drained canned or freshly cooked lima beans with 2 cupfuls of diced celery, 6 chopped olives, 1 minced onion, and 2 tablespoonfuls of chopped green pepper or pimento. Moisten with mayonnaise and arrange on lettuce leaves. Garnish with curled celery and sprinkle with paprika.—Mrs. M. R., Minnesota.

Meat Croquettes

1 cupful of milk
2 tablespoonfuls of butter
4 tablespoonfuls of flour
2 cupfuls of ground beef or veal
1 egg
1 tablespoonful of lemon juice

Make a thick white sauce of the milk, butter and flour. When the sauce thickens, add the raw meat which has already been seasoned. Stir well, and cook until the meat is done, then add the beaten egg and take from the stove. Stir in the lemon juice and pour out in a pan or platter to cool. When cool, shape, dip in crumbs, beaten egg, and the crumbs again, and fry in deep fat (375 degrees); drain and serve hot.—Mrs. A. F. M. Kansas.

Delicious Fudge Squares

2 eggs, separated
¼ teaspoonful of salt
1 cupful of sugar
2 squares of chocolate
¼ cupful of melted butter
¼ cupful of flour
1 teaspoonful of vanilla
1 cupful of nutmeats

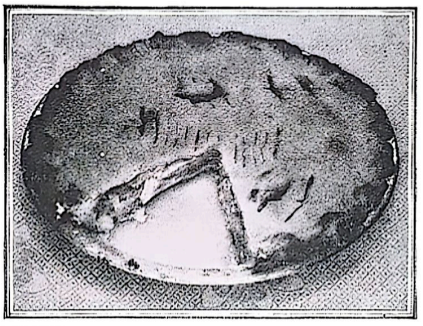
Beat the egg yolks. Add the salt and sugar, then the butter and chocolate which have been melted together in a saucepan over hot water. Add the flour, vanilla, and nutmeats, and lastly the egg whites beaten until stiff. Bake in a moderate oven (350 degrees) about thirty minutes. Cut in squares. These are excellent for tea or with fruit for a simple dessert.—Mrs. L. G. B., Florida.

Have you sent in your favorite pickle recipes? The contest closes May 1st.

For salad dressings, the quality of Mazola is praised from coast to coast by women who formerly used imported oils exclusively.

daily

More women realize that Mazola *is now indispensable* in the Kitchen



For shortening, Mazola makes a flakier, more appetizing pie-crust —better grained, lighter cake.

Foods fried in Mazola are greaseless when ready to serve—and always more easily digested.

HERE are a few *"reasons why"* that will interest every woman:

A single can of Mazola in your kitchen means that you have *always ready for instant use*—a perfect shortening, equal in richness to butter; a pure vegetable fat for all frying; a salad oil as fine as money can buy *anywhere.*

Mazola *itself* is as good and wholesome to eat as the fully-ripened golden corn from which it comes.

Then there is the economy of Mazola—for all three uses named above, Mazola usually costs less.

Once Mazola comes into your kitchen you, too, will find it indispensable for shortening —for frying and for salad dressings.

Send for this book TODAY! "The Modern Method of Preparing Delightful Foods" by Ida Bailey Allen, contains nearly 300 unusual recipes. See coupon below.

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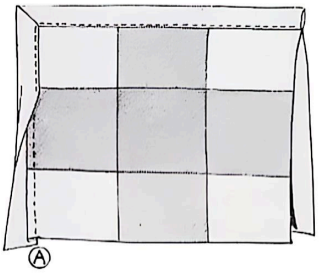
Summerizing the Porch

The Sewing Machine Aids in Making Smart Pillows and Covers

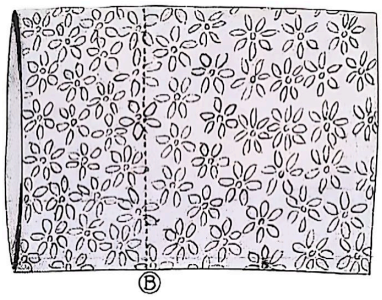
MARY BROOKS PICKEN

THAT the porch is the leading summer attraction there is no doubt. When theaters close, its season opens. Best of all, one need not leave home to enjoy it, and it costs only the little effort and money that are required to make it colorful, comfortable and interesting.

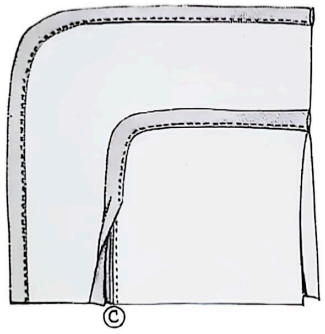
To my mind a porch should, as my young nephew said, have a "coming," not a "going" look. It should invite us to tarry, and there should be books and magazines and papers to entice one. There should be places to sit and rest, and even to recline, if that is the inclination. There should be gay cushions and slip covers, all made to harmonize.



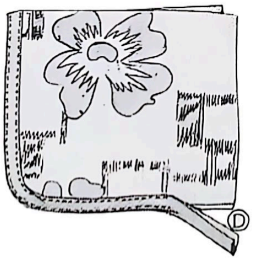
In using tape or braid for cushion edges stitch it on as at A, then turn the free edge and stitch. The two rows of stitching give strength and insure neat edges. Corners should be mitered



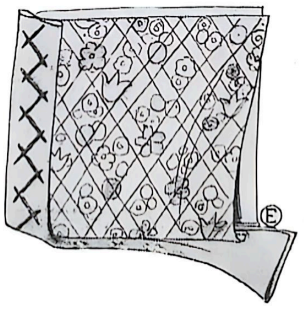
Small flat pillows may be rounded on the corners and bias binding or tape as at D stitched over the seam, providing a semi-box cushion effect



Above, a pillow cover with extended edge. The lower part is cut 2 or 3 inches longer on all sides, edges of top and bottom bound, top stitched to place, thus providing a case for the pillow



Another type of box cushion is shown below. A bias piece of trimming material is inserted in the seam as at E. The bias is then flattened against the pillow and held to place with big catch stitches made in coarse contrasting thread



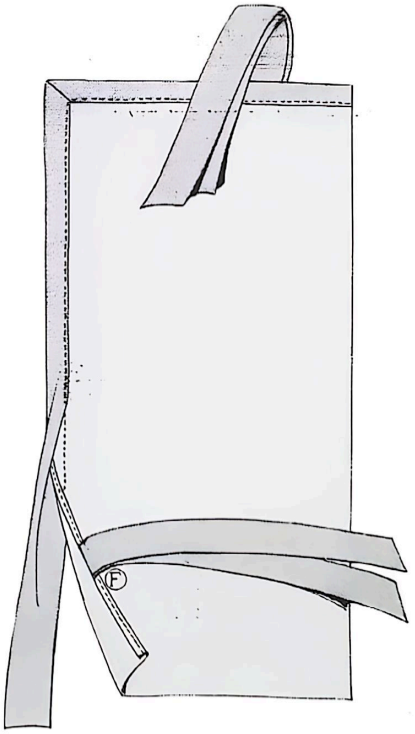
Cushions for porches should never be made of remnants or odd pieces. They should be designed to carry out a planned color scheme. Cretonnes cost so little and can be sewed together with such ease that there is no excuse really for lack of discrimination in color effects.

Cretonnes or porch coverings should be selected to be in keeping with the general color scheme of the exterior of the house and with regard to the nearness of the trees, grass and shrubbery, also the color of furniture on which they are used.

If one cannot afford fast color cretonnes, then plain or broad striped denim or heavy cotton suiting in fast soft green, tan, dull red, or the right shades of blue or violet, prove satisfactory, especially if a gay contrasting binding is used with any one of the colors mentioned. The binding I like best for these, perhaps because it is so easy to put on, is twilled tape. This comes in fast color, is about five-eighths inch wide, very firm, and of a texture that suits serviceable outdoor cushions. There are also heavy ready-made bias bindings that are made especially for decorating and are admirable to use in making cushions, slip covers, or porch equipment of any kind. If the twilled tape or bias binding is not available in the right color, one may buy the firm fabrics and cut binding, making it any width desired.

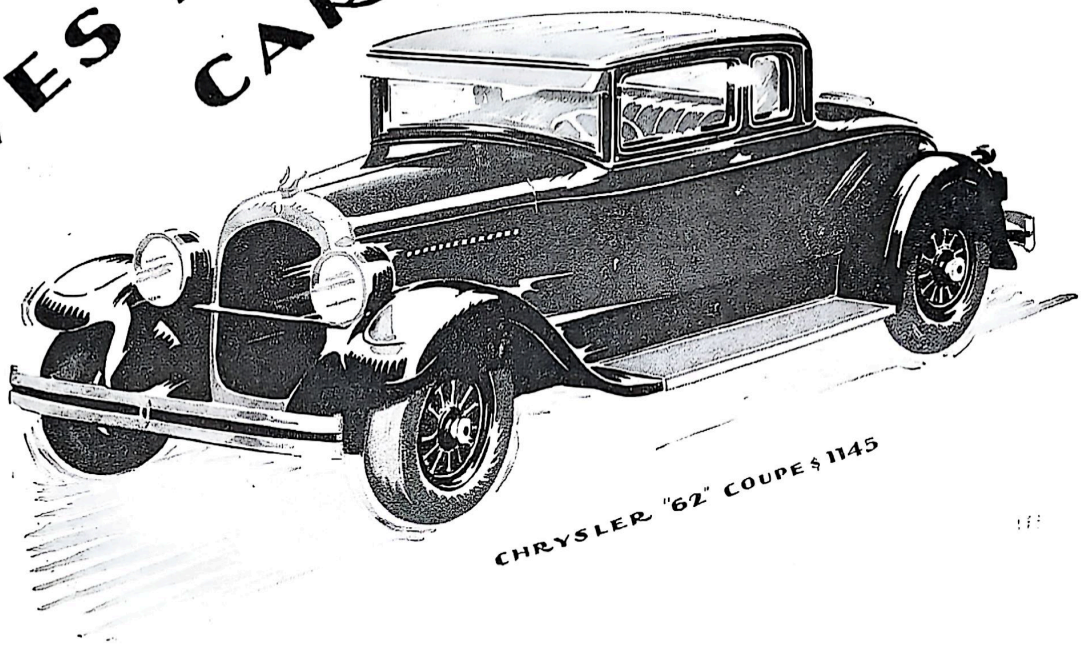
Applique cushions or couch throws are also very attractive and *(Cont. on p. 130*

One end of an oblong case can be stitched across, the pillow slipped in and the other end stitched the same. The ends extending 3 to 6 inches are attractive



When making slip covers take two precautions—first, to have a wide enough twistless tape so that it will not become stringy; second, to secure the ties so that they will not pull out. As shown above, the raw edge is turned and stitched first, and the folded (not cut) tape caught in as at F. Two rows of stitching are used in putting the binding tape on, thus making doubly sure of its holding together

WHAT CHRYSLER GIVES NO OTHER CAR APPROACHES



WHEN a product like Chrysler leaps into prominence almost overnight and continues growing in public favor month after month and year after year, it must offer unique qualities and values.

The fact is, people are recognizing more and more how Chrysler engineering and manufacturing constantly show the way, how refinements and improvements for the very finest Chryslers are passed on, through the principle of Standardized Quality, to the Chryslers of lesser price.

The way that Chrysler sales keep climbing, always climbing—from 27th to 3rd place in 42 months — reflects the realization of motor car buyers that Chrysler manufacturing and engineering offer quality and value in every price field—from $670 to $3495 — that no other car approaches.

* * *

Great New Chrysler "62"—Seven body styles, $1065 to $1235. Illustrious New Chrysler "72" —Seven body styles, $1545 to $1795. New 112 h. p. Chrysler Imperial "80"—Fourteen custom body styles by Chrysler, Dietrich, Locke and LeBaron, $2795 upwards. New Chrysler "52" —Seven body styles, $670 to $790.

NEW CHRYSLER "Red-Head" ENGINE *—designed to take full advantage of high-compression gas, giving 12% greater torque with greater speed, power, and hill-climbing ability; standard equipment on all body models of the 112 h. p. Imperial "80," also standard on the roadsters, and available at slight extra cost for other body types, of the "62" and "72."*

FOUR GREAT CARS
IN 4 GREAT PRICE FIELDS
CHRYSLER "52"-"62"-"72"-112 H.P. Imperial "80"
40 BODY STYLES-$670 TO $3495

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Bread and Butter Books

Helpful New Volumes For Your Useful Shelf That Stimulate Mental Housecleaning

HELEN COWLES LECRON

MAY—the month of housecleaning and renewing. Windows thrown wide to let in the good, clean, spring sunshine. The practical side of our lives (altho this is an ambiguity, no side of our lives being wholly practical) thrown wide to let in the good clean sunshine of common sense.

Let me tell you about some new "useful books"—one library that I know calls them "bread and butter books"—which will help you in your May housecleaning, physical and mental. These may not be "literary" works exactly, but they're worth knowing about just the same.

To begin with the house-cleaning. I have discovered a new, helpful and entertaining little volume called *Let Me Fix It*, by May E. Southworth (Morrow $2). It claims to be "a hand-book of brief, clear directions for saving time, money and nerves in housekeeping, general repairing, tinkering, caring for a wardrobe, cooking, gardening, and other usual and unusual tasks," and I don't think it makes too large a boast. For instance I just now learned from it that

"If a nail is heated thoroly it can be driven into plaster without breaking or chipping it."

"To re-open a sealed envelope, lay a wet cloth over the flap and press with a warm iron."

"Before using a new pen, to make it hold the ink and to flow freely, hold the pen in the flame of a lighted match for a moment. Wipe before dipping in the ink."

I always enjoy reading the "helpful hints" in the magazines—perhaps that is the reason this book appeals to me. And if some of the advice seems a trifle—well, fanciful—such as

"A drop of lavender added to ink gives it a delightful fragrance"—

"Take not only paper drinking cups on a picnic but soda fountain straws. These will enable one to reach clear water from running brooks and bubbling springs without disturbing the bottom"—

What of it? Most of us housewives like to revel in many phases of our subject. And this book (clever, funny little illustrations by Melita Ahl Phillips as well as the text) is both readable and sound.

AS for new books on home management, I know of none about which I am particularly enthusiastic. Of course this is a subject which is continually changing; besides, the magazines contain much up-to-date material and there is a vast difference between home-keeping in a city apartment and in a house in the country, set rules are almost impossible. An inexperienced home-maker would find *The Care of the Home* by Henrietta D. Robinson (Harper's $1.50) of some help but it is too loose and general to suit me—besides,

Kathleen Norris, author of "The Fun of Being a Mother"

it has no index, and that, in such a book, is indispensable. As you perhaps know, Christine Terhune Herrick has revised and brought down to date (so the publishers claim) Marion Harland's once-popular *The New Common Sense in the Household* (Stokes $2) but it strikes me still as far too old-fashioned. Such a book as this cannot be revised—it belongs to an older day when materials, time and labor were all far cheaper than they are now.

There are a few new cook-books worth mentioning: *Treasures of a Hundred Cooks* by Mary Allen Hulbert, (D. Appleton $2.50)—not a comprehensive work such as *The Boston Cook-Book*, but one intended to supplement rather than displace it; *Feed the Brute* by Margery Swift and Christine Terhune Herrick (Stokes, $1) in which the majority of recipes are taken from *The New Common Sense in the Household* by Terhune and Herrick; a few others. No, given ordinary intelligence and a standard work or two, most of us housekeepers can get along fairly well without any of these.

I can recommend one new book on manners, Anna Steese Richardson's *Etiquette at a Glance* (Appleton $1.50). Inasmuch as I think a glance is enough for this subject and $1.50 enough to pay for any etiquette book, it pleases me much more than the author's other comprehensive and elephantine volume, *Standard Etiquette* by Anna Steese Richardson; (Harper and Brothers, $4). *Etiquette at a Glance* is simple and direct; it has also the necessary advantage of a thoro index.

Are you interested in books on careers? —do you have a son or a daughter who ought to be deciding on a profession? Then you might like to meet Edward L. Bernays' large and robust work *An Outline of Careers* (Doran $5). Thirty-eight professions are here covered in turn by men and women who have not only made successes themselves but who have had a depth of experience that entitles them to speak of the many different aspects of their own particular professions. The subject is treated in the same way by Helen Ferris and Virginia Moore in their attractive new book *Girls Who Did* (Dutton $2.50), albeit the book is written for girls about women's jobs. In the latter nineteen successful women tell their own stories:—Neysa McMein explains how she attained success as an illustrator, Annie Carroll Moore as a librarian, Ethel Barrymore as an actress, etc., etc. And Miriam Simons Leuck has written a valuable new book on *Fields of Work for Women* (Appleton $2.50).

Of course in one sense these books are all fairly superficial—no one asked to tell the story of her success along with a group of other brilliant successes is going to get down to brass tacks and tell the whole truth about herself. Perhaps if she did the book wouldn't be offered to idealistic youngsters! In *Thru Many Windows* (Harper's $2.50) Helen Woodward really told just how and why she succeeded as a business woman, and very refreshing reading it is, too, but scarcely a book that a librarian would offer to a young high school girl wondering what her work is to be. Tho that, I believe, is the young girl's loss; I do not like to think of the truth as a commodity too dangerous for our daughters. Also Rheta Childe Dorr, the writer and suffragist, had the courage to tell the story of her own career in *A Woman of Fifty*. But these two last-mentioned books were not written by women attempting to sell careers to the aspiring—they were written by women interested in the truth for its own sake. (Question—do they belong on our useful shelf or not?)

PROBABLY this is the place to mention a book which I have been reading recently with pleasure and profit: *Writing and Editing for Women* by Ethel M. Colson Brazelton (Funk and Wagnalls $2.50). The author is now an instructor in the Medill School of Journalism, Northwestern University; for years she had experience in various lines of newspaper writing. And all I can say—perhaps it is enough from another magazine and newspaper writer—is that the girl or woman planning to enter the writing field ought to find (*Continued on page 76*

"See, mummy, it's all clean!"

(The table is Sheet Steel)

A porcelain enameled Sheet Steel kitchen table is the cleanest kind of surface to work on. Of course. Why not? Its glistening face is exactly like that of a china dish. It is perfectly smooth and even. Has no pores in which dust or dirt can cling.

You can lay meats or fruits, or knead dough or roll biscuits, on that kind of surface with the sure knowledge that the food is kept immaculate.

And the enameled Sheet Steel table is so *easy* to clean after it has been in use. No scouring-soap or scrubbing-brush or heavy expenditure of strength and muscle needed here. Just wipe it off with hot water and dry it.

Sheet Steel kitchen tables save work, are sturdy and durable and distinctly add to the appearance of the well-kept kitchen.

These advantages of Sheet Steel tables are equally present in other articles of kitchen equipment: stoves, refrigerators, cooking utensils, cabinets. Even the kitchen or bathroom wall tile may be had in steel and in any color.

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***for* Strength Safety Beauty *and* Economy**

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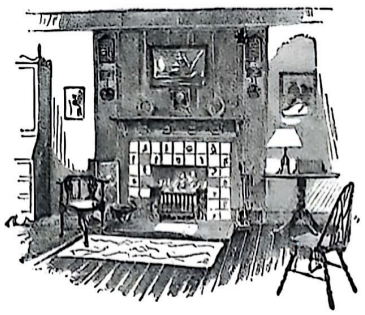

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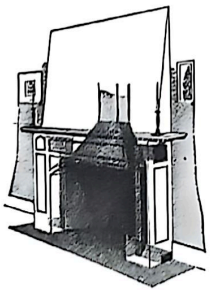
Left: Heatilator ready to install. A complete unit up to chimney flue—no assembling necessary. *Below:* Phantom view of Heatilator installed.



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Unusual Salad Accessories

EDNA SIBLEY TIPTON

POPULAR old salads, like last year's favorite clothes, may acquire an appearance of being in the mode, so to speak, if the latest accessories be combined with them, for they seem then a this year's outfit.

Much as we all like to know the newest in any line, we are quite interested also in finding out what it may cost us to be in style and how much work is involved in our attempt to "arrive."

If you will investigate, you will find that there are many commercial products now on the market which will make you almost forget the salad accessory so commonly served—the salt wafer. There are pretzels, Swedish wafers, matzoth, cheese crackers, cheese sticks, bread sticks, salted nuts of various kinds, patty shells, cream puff shells and potato chips.

"Cream puff shells! Patty shells! Potato chips!" you exclaim. "They are not salad accessories!"

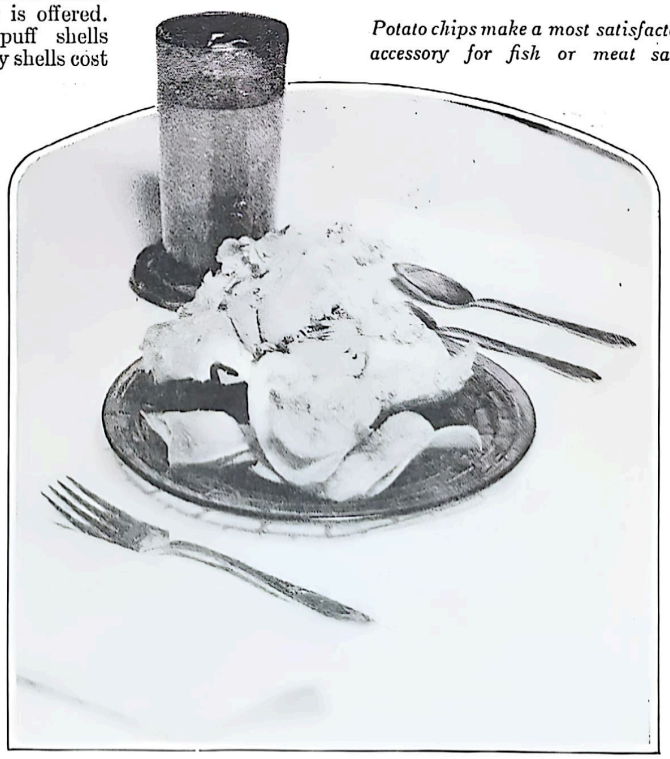
It does seem a misprint, doesn't it? Yet the smartest hostesses are using them for this purpose. They fill the patty shells or the cream puff shells with cheese and nut salads, with cheese and date or raisin salads, with cream cheese and olive salads, cheese and pimento salads, with banana, grape, minced green pepper and marshmallow salad, with canned apricot and marshmallow salad or with peach, nut and marshmallow cream salad. Of course, in the case of the fruit salads, the fillings are well drained and placed in the shells just before serving and they are topped with either stiff mayonnaise or with whipped cream and boiled dressing. And then no bread or wafer is offered. Cream puff shells and patty shells cost more than do other accessories, perhaps, but then they are more striking as accessories, too.

In offering potato chips as salad accessories, one should crisp them just before serving. This may be done at table on an electric table stove, if desired, and this is a good way to do it, too, for then they may be presented piping hot. Potato chips can be made at home or they may be purchased, but in either event they have two points in their favor—they may be provided far in advance and they cost little considering the "chic" with which the salad served with them is invested.

And while on potatoes, have you ever offered shoe-string potatoes or waffle potatoes as salad accessories? These two manners of presenting potatoes as accessories to salads have all the novel features of the potato chip. They may be prepared far in advance of serving, but must be crisped when wanted, for if not crisp, they lose their toothsomeness. Use a vegetable cutter in the creation of waffle potatoes. These potato accessories are particularly appropriate for service with meat or fish salads.

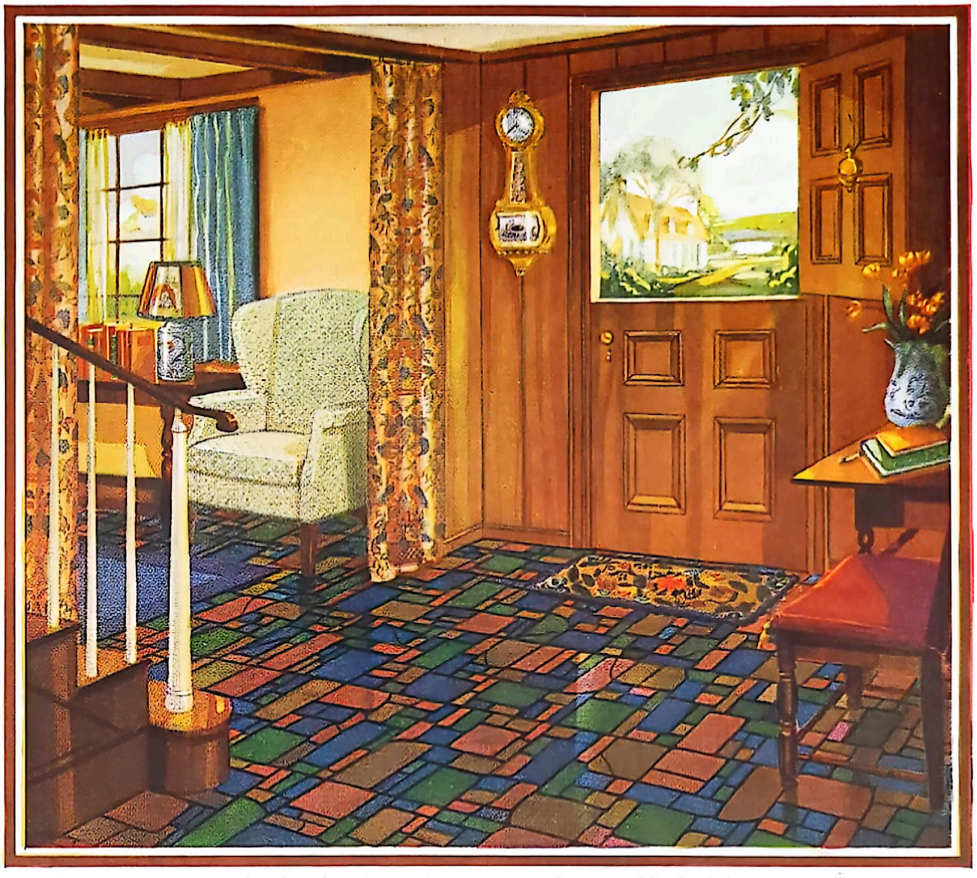
RECENTLY a hostess noted for her originality offered fruit salad with a covering of buttered and crisped corn flakes. Of course they were piled upon the concoction just before its service. A better way to present this accessory is to pass it after the salad has been served, the hostess setting the example of how it is to be used. These also may be crisped at table on an electric (*Continued on page 104*

Potato chips make a most satisfactory accessory for fish or meat salad



Beautiful Floors can be long-lasting, too!

Armstrong now offers long-wearing linoleum floors with the new, satin-smooth finish of Accolac —a dirt-resisting lacquer



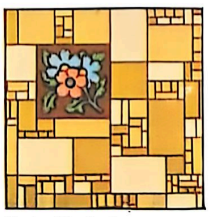
The simple entrance you see here has very little space for furniture. Yet the vari-toned handcraft floor of Armstrong's Linoleum contributes such a decidedly decorative touch that neither the smallness of the room nor the lack of furnishings is apparent. This floor is an inexpensive Moulded Inlaid Design, No. 5031, and has the new dirt-resisting Accolac lacquer finish.

"WHAT two qualities do you think are most important in the floors of your home?" Four national magazines asked their readers this question. The replies—almost unanimous—were, *"Long wear and beauty."*

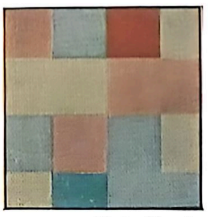
Armstrong designers in the past few years have contributed the beauty. Today you can stop at any good department, furniture, or linoleum store and select a new floor that in design and price meets your needs exactly.

And now you can buy that floor with the added assurance of beauty that *stays* beautiful with very little care. For the new designs of Armstrong's Linoleum—Plain, Embossed, Inlaid, Jaspé, Arabesq, and many Printed patterns—now come to you with the protection of Accolac—the new lacquer finish applied at the factory.

This new Accolac finish resists dust and dirt. Water, mud, even greasy liquids, wipe right up from the satin-smooth finish. Waxing floors now becomes much simpler. Just a little wax . . . just a little polishing . . . and your Accolac-finished Armstrong Floor gleams with the mellow luster of a rich, carefully rubbed-down surface.



Design No. 8416



Design No. 460

Once your new Armstrong Floor with the Accolac finish is laid over the old—cut and measured to fit the room; then cemented over builders' deadening felt—you have everything you ever hoped to get in a floor—beauty in design; years of wear because the colors are inlaid; and a welcomed ease of cleaning made possible by the new, dirt-resisting Accolac finish.

It takes but a few moments to learn first-hand what modern Armstrong's Linoleum Floors look like—to find out how inexpensively they can be installed to brighten your own home. And 10c in stamps (in Canada 20c) brings you "The Attractive Home—How to Plan Its Decoration," a new, color-illustrated guide for home decorators written by Hazel Dell Brown. Address Armstrong Cork Company, Linoleum Division, 305 Stevens St., Lancaster, Pa.

Look for the CIRCLE A *trade-mark on the burlap back*

Armstrong's Linoleum Floors

for every room in the house

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UP under the rafters where cobwebs used to embroider grandfather's trunk and the old horsehair sofa, mother's imagination has built this beautiful bathroom. As the children were growing up it was only a dream. Today this extra bath is giving the family the comfort and convenience such a room always adds. Only a cottage bath, it is modest in cost; but mellow, tranquil, and lovely with its prevailing hue of soft green, its floor of russet cork tile, its varicolored rag rugs, its painted linen closet, and figured curtains of Aqua-Silk. . . Before building or remodeling write for *New Ideas for Bathrooms,* illustrated in full color. Then consult a responsible plumbing contractor.

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Asparagus and Its Allies

Continued from page 16

time the hoeing is done so that by midsummer the hollow will have been filled.

A good way to judge how many plants to set is to make the bed six feet wide with one row full length down the middle and the others two feet on each side of it, thus placing them one foot from each side of the bed. As many home gardens are fifty feet long such a bed will require 147 plants at one foot apart or 96 at eighteen inches—150 and 100 plants respectively. The extras may be crowded in the rows by shortening the space between plants a little. Tho the former distance between plants is much less than in commercial beds the demands on the soil may be offset by extra manuring and fertilizing, especially where fowls are kept.

It is a mistake to plant two year or older asparagus plants. So much root is lost in digging that many plants die and the others do not recover from the shock rapidly enough to compare with first class one-year plants. Commercial growers insist upon one-year plants and reputable growers of plants for sale do not like to sell older plants.

IN ordering it is advisable to buy the highest grade and the largest size of one average stock because of its sturdiness. The usual price of pedigreed Martha or Mary Washington plants is usually about $3 a hundred. These are the best kinds to buy because they are rust resistant. However, there are good strains of other varieties such as Palmetto, Barr's, Conover's Colossal and Columbian Mammoth, which various plant growers advertise.

Even where asparagus is planted in rich soil and well fed it is generally recommended to avoid cutting before the spring of the third season. I have, however, several times planted a bed one year and made one or even two cuttings the next season without any apparent ill effect to the plants; but the ground was made very rich before planting and given top dressings of poultry manure and wood ashes (not, however, together but at different times).

It is essential at all times to remember that the treatment given the plants during one season will show in the crop the following year, because the green tops combine the crude materials in the soil with those of the air to form the stored plant food from which the shoots are developed. Hence the advisability of heavy feeding, of restrained cutting the second and third seasons and the cessation of all cutting in established beds after six or eight weeks from the opening of spring. The old gardener's rule to stop cutting as soon as the earliest garden peas are ready for picking, is a good one to follow.

In cutting each stalk keep the knife blade nearly vertical, close to and parallel with the stalk until it is as deep as desired, then bend it outward slightly so it will cut the stem deep down and with a short slanting cut. Avoid slashing. This will prevent injuring other sprouts getting ready to push up to the surface.

An even better way is to place the crooked forefinger beside the stem low down, even thrust in the soil, and then to press with the thumb on the opposite side. The shoot will snap off with a clean break. The advantages of this are the impossibility of cutting or injuring any other stems and the absence of any waste in the parts gathered. Every bit is tender and can be eaten.

It is important to make cuttings regularly—daily preferred—and each time to cut all the stalks large enough to use. These may be stood upright in water and so kept for several days until enough for a dish has been gathered. When stalks are allowed to grow long they become woody at their bases, and then waste not only what would be edible if gathered earlier, but also waste plant energy. Moreover, fewer stalks are produced than where cutting is done daily.

In the autumn of each year where stable manure is available it is a good plan to spread a four-inch layer on the bed to act partly as fertilizer and partly as mulch. When such is not available a heavy layer of fallen leaves held in place by corn stalks, tomato vines, etc., will be useful as a mulch tho not as fertilizer.

In the spring when the grass begins to appear the winter coverings must be removed and either used as summer mulch wherever needed or as the foundation of a compost pile for use as soil the following year.

AS soon as the frost is out of the ground a digging fork (not a spade) should be used to dig the entire bed starting down the rows as indicated by the stumps of asparagus stalks and then working between the rows and above the rows. The depth of the digging should not exceed five inches above the rows in order to avoid damaging the plant crowns.

Commercial fertilizer, when used, should also be applied between the rows, not over the plants themselves. Two dressings of a good general mixture should be given, one of about twenty pounds, just before digging, the other twice as much after the last cutting or before the last cultivation.

Besides this general fertilizer two or three surface dressings of nitrate of soda should be given; the first when the earliest shoots begin to appear, the second three or four weeks later, and the third when the last cutting is made. Each of these dressings should be of three or four pounds for the six by fifty-foot bed.

From the time of digging forward the ground should be cultivated with the wheel hoe at intervals of ten days or oftener if there is a rain that forms a surface crust on the soil. These cultivations should be made over the entire ground—shallow over the plants; deep between the rows.

It is a good plan also to cut healthy beds as soon as the tops turn yellow or brown and to burn them so as to avoid having the seeds scattered on the bed for these will give trouble as volunteer plants unless destroyed by cultivation.

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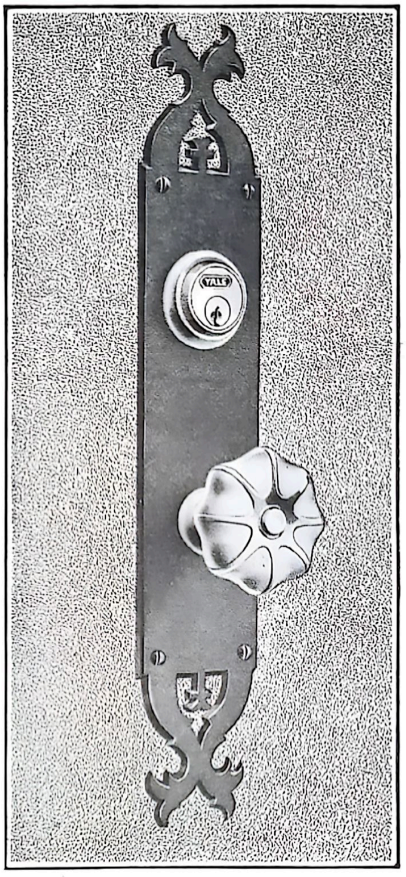

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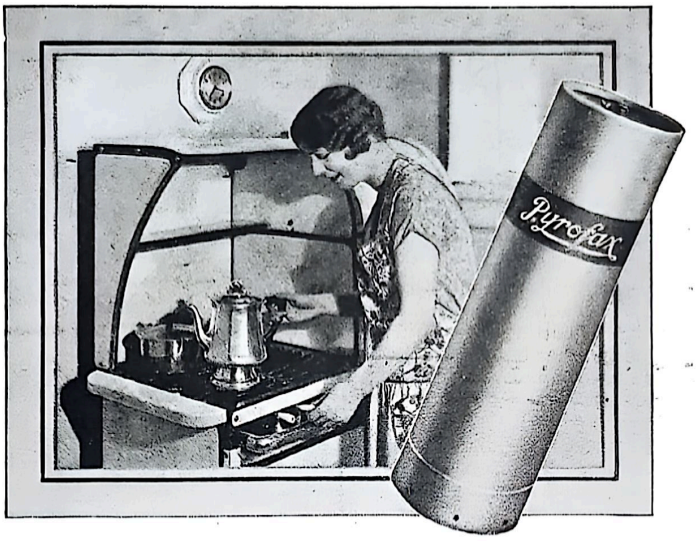

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SAN FRANCISCO—114 Sansome Street
MINNEAPOLIS—600 First National Soo Line Building

Gardening on the Rim of the Prairie

Continued from page 25

of aphids. They pasture the underside of their leaves and suck all the life out of them; but a friend of the writer's, who failed utterly last year with Hearts of Gold in this vicinity on account of aphids, succeeded admirably with them farther north a few years ago, where trees are fewer. By using a spraying rod, however, about the length of an ordinary cane, and turned at the end so as to spray upwards, the underside of the leaves may be sprayed with nicotine sulphate solution, using about two teaspoonfuls to a gallon of water. In this way fair success may be expected with a small patch.

Cucumbers do well in this region when a few points are carefully guarded. The striped beetle is here, as in most other places. The ordinary sprays are helpful, but I like a wire half-globe covered with fine netting placed over the hills until the vines begin to run, so that insects cannot get at the plants. One of the best safeguards against insects is always vigorous growth, so that strict attention should be given to fertilizers and thoro cultivation. My cucumbers do best when I give them partial shade during hot days by planting a few rows of corn or pole lima beans on the south of them, and in dry seasons they are helped if the ground over which they run is covered lightly with straw or other mulching to hold in the moisture.

WE are rather fond of onions at our house, and so we have a patch of the winter variety for early ones, and follow these with multiplier sets. Seed onions, to be successful in this region, must be planted very early on account of our short, hot summers. I have had the best success with them when I planted a broad row thick with seed, and not very early, to grow small onion sets for the following season. The larger bulbs can be used for the table in the fall, while the small ones, which are not so likely to go to seed when set out the following spring, make fine, large onions. The globe varieties, red, yellow and white, are the favorite varieties in this region.

This is a corn country, and sweet corn for the table never disappoints us. My favorite varieties, owing to their tenderness, delicate flavor and small ears, are the Malakoff, Golden Bantam and Early Catawba. They are all early varieties, but I plant every two weeks even until the first of August. During the latter half of July I stick in a hill of corn wherever there is a vacant space, where radishes, lettuce and early peas have grown, and I always have table ears until frost, which, in our long and marvelously beautiful autumns, is sometimes late in coming.

Following instructions in a magazine, which told what to do in the garden each month, last autumn I cut down my asparagus foliage while yet green. Then came some warm, moist days which started into growth the new crowns, which should have lain dormant until next spring. Whatever should be done month by month in other regions, in this region asparagus foliage should not be cut down until it is dead.

Many fine watermelons are raised here, but my garden is within a block of a schoolhouse where boys con-

stantly pass, and, having on certain occasions years ago been a boy myself, I figure that the part of my garden that I would gladly give to watermelons is better occupied with other fruit.

Not having a large garden, I sometimes try for two crops from the same ground. In my Early Ohio potato patch, for example, I make hills for Hubbard squash. The potato vines begin to die at the time the squash vines begin to run. If the squash borers do not molest my Hubbards, I get two good crops.

All kinds of tomatoes do well with us, but my favorites, owing to their delicate flavor and solid meat, are the June Pink and the Beefsteak. For early use I raise the plants in the house, and for late, in the open garden. In setting them out, it helps against too hot summers to lay several inches of the plant underground with the head to the south. The part of the stem underground will put out roots, enlarging the root system, and as the plant grows it will shade the ground.

The gardening habit, when once acquired, is a constant delight. Its secrets of success, when one has learned the vegetables that do best in his region, are a rather light soil, adequate fertilizer and plenty of cultivation.

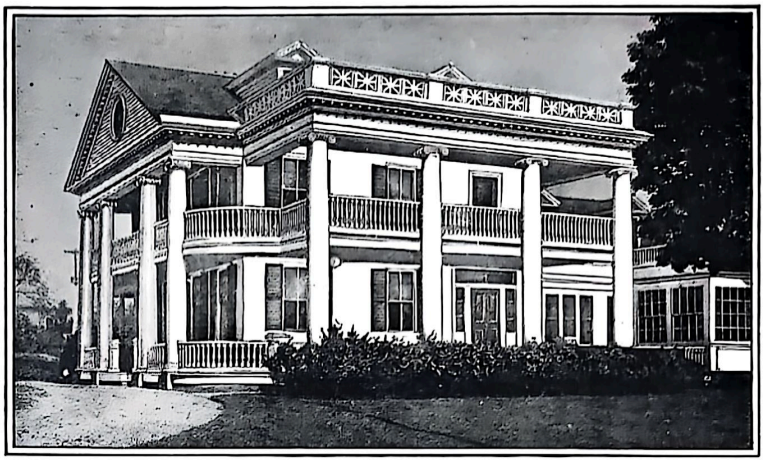
The Bouquet of the Month

TULIPS of glowing scarlet in an old blue-green Mexican glass pitcher! Why this charming old flower never seems so lovely as when arranged in a pitcher of some sort I cannot say; but there is somehow a relationship between the two, an air of fitness one to the other.

While no special type of pitcher seems necessary, there is an added attraction in a translucent one, in that it makes it possible to see the flower in its entirety and not detached.

No rigid rule has been followed in this arrangement, except to keep the flowers at different levels, facing in various directions and with no cross-cutting. By this is meant the crossing of one flower stem or leaf over the other, which always detracts from the beauty of an arrangement.

These tulips are from five-year-old bulbs that have produced many bulblets, and consequently have diminished somewhat in the size of their blossoms. They are, however, charming for indoor decoration and leave the heavier and newer blossoms of Darwins and Breeders to grace the garden.—F. H.



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Among Ourselves

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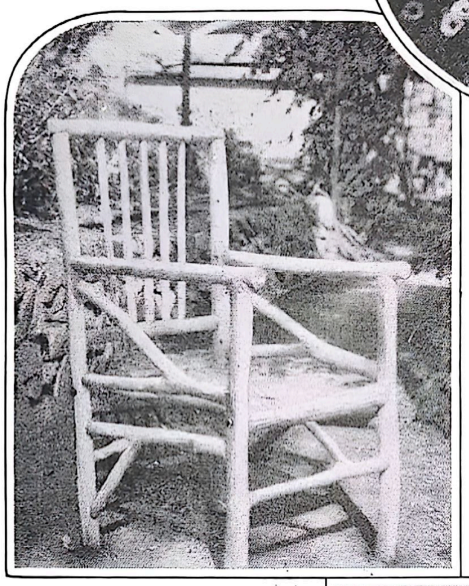
CONTRIBUTED BY READERS

Babies and Blossoms

I GET so much enjoyment from your magazine and look forward to its arrival each month eagerly. It seems to breathe friendliness and "human-ness." I have answered many of your advertisers and always mention the name *Better Homes and Gardens.* I have always been satisfied with my purchases.

I am sending a snapshot which I hope you may find room for in some future issue. I think the pictures of the younger members help your magazine seem like one big family. Children and flowers are my two inspirations for "better homes." A person who has flowers, children and a good home, does not need to look farther for complete happiness. — Mrs. Ashby West, Riverdale, Maryland.



Babies and blossoms, Mrs. West's two inspirations for a better home. Speaking of inspiration, study the garden at bottom of page. S. C. Hanson, Story City, Iowa, is the owner

H. Hauter, Jacksonville, California, makes garden furniture like the chair at left. Willow branches are cut after the sap is up, peeled and seasoned in the shade. Screws hold rails together

How to Have a Successful Garden

THIS is the season of the year when all garden lovers are fervently hoping that their own particular little plot will yield something more than a healthy crop of weeds. All lovers of pretty gardens are wearing out good eyesight in pursuing "better gardens" literature, and making many little sketches on the backs of old envelopes.

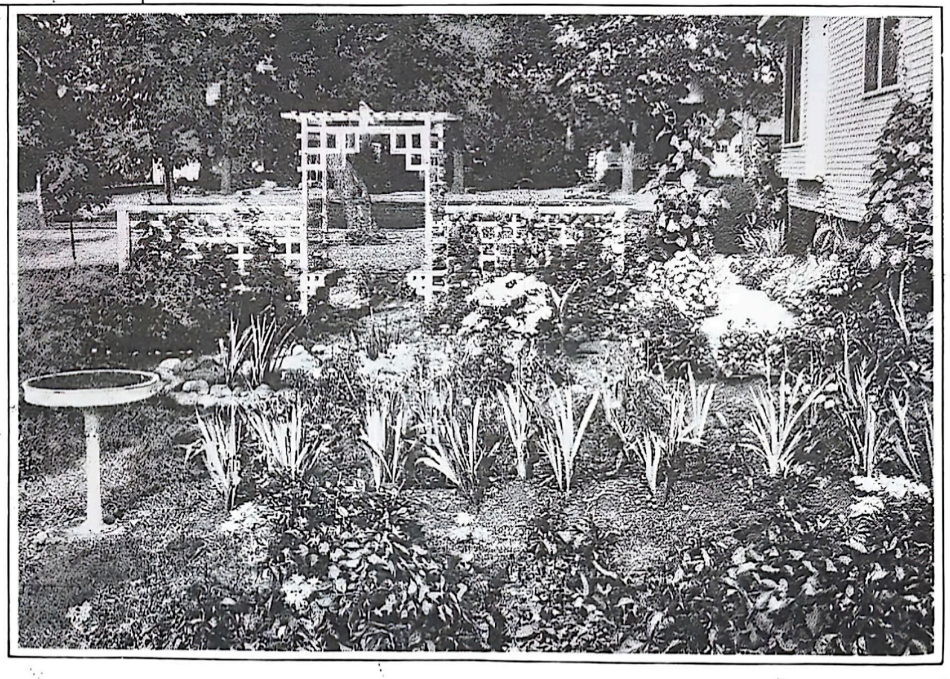
"Now here," they say to each other, "here in this corner I am going to have some lilies-of-the-valley; and over there some of those good old sturdy bachelor buttons." Or else they line off their precious gardens in the most exact and even rows and plant corn and peas and lettuce.

Now, year after year I have listened to my friends and friendly enemies rave over their gardens at the beginning of the season—and weep over them at the end. Never has one of the garden lovers produced a perfect garden. Why, I ask you, why do they not acquire the success that they dream and plan and play over?

It seems perfectly simple to me to produce a successful garden, and you, who are following my words breathlessly, will, I am sure, agree with me if you but read on to the end.

This then is my plan. After your garden is mapped out and planted, and the young, tender and poetical shoots are just beginning to look up and wink at the sun—after all that has happened, this is your next step:

Wire General Butler for permission to borrow three or four (*Continued on page 60*



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Bigger and Better

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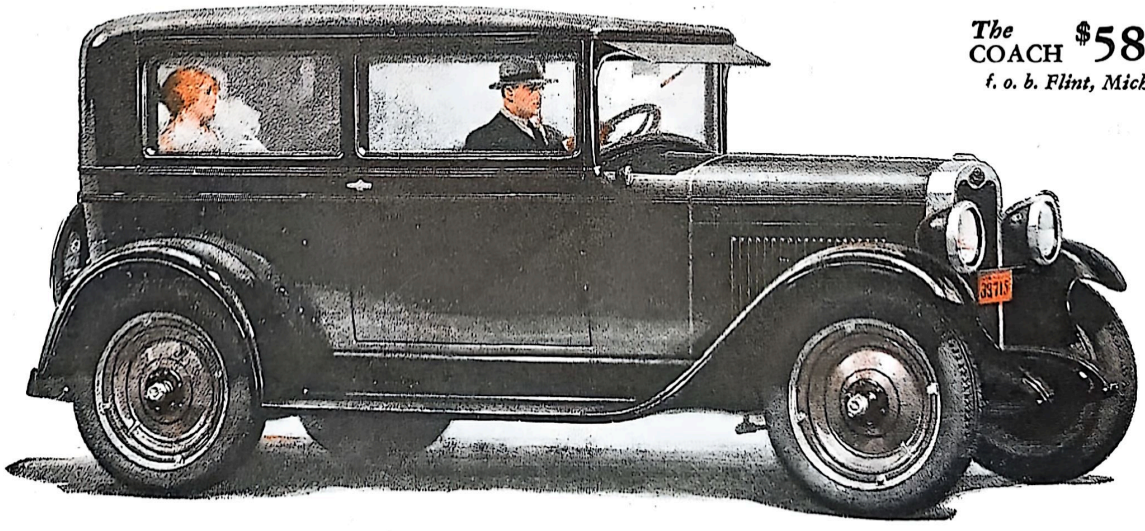

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of his most expert Marine marksmen. Have them pa[illegible]ud keep a most observing [illegible]ur neighbors' chickens, cats, dogs, or what have you? At the first invasion of the enemy, and I stress the importance of the first, have them display some of their expert marksmanship.

The next step is to interview the Chief of Police. Have him assign his biggest, most broadshouldered and gruffest man to keep trespassers from your sacred property. One word, or perhaps two, from him will scatter the swarms of boys who are happily playing mumbly-peg on your nice lawn. No modest, self-respecting young lady of the early tens or twelves would dare to smell the flowers with such an austere guardian of the law around.

Then the next and final step in producing a successful garden is to hire a husky, healthy man of early middle age. He will do the weeding, the watering, the pruning, the spraying, the cutting. All you will have to do is the heavy looking on and the admiring of your garden.

There; you who have followed me to the bitter end will, I am sure, agree with me that these directions will never fail. If you carry them out, in detail, as they have been set down for you, you will find that your garden is the envy and delight of all your neighbors—including yourself!—Edna Phyllis Nichols, Stratford, Connecticut.

Pruning Pointers

DON'T be afraid to prune shrubbery after the second year. Last year when pruning time came, my heart failed me; those dear shrubs that I had worked with until they seemed almost like children—I could not bear to operate. So I let the man who was doing the work cut only a third as much as he wanted to. As a consequence, my place was a wilderness last summer.

This year, I let him cut heavily and now I can see out of my dining room windows and the sun has a chance to come in. Next year will probably see a good growth as the plants are stronger each year.—Mrs. Ethel Thomas, Atlanta, Georgia.

Apartment Pumpkins

APARTMENT pumpkins is the name bestowed upon the small Japanese pie pumpkins by a young grocery clerk in this city.

"Why call them that?" I asked.

"Because nearly every woman who lives in an apartment will select one of them, instead of the larger ones," he replied. "You see they are just big enough to make a couple of pies, with none left over. The larger pumpkins at the very same price do not sell half so quickly as these little fellows."

I bought my first one then for I, too, lived in an apartment. I found it to be as good as any pumpkin I ever cooked, just enough to make two good-sized pies, after cutting in two, and steaming in my colander. Two little skins to throw in the garbage pan, instead of half a dish pan full. I bought three or four at once, and find they keep well. I can wrap them in paper, like oranges, and they take up such a little space. If I were a market gardener I would raise them for market, and label them, "Apartment Pumpkins."—Mildred Davis, Topeka, Kansas.

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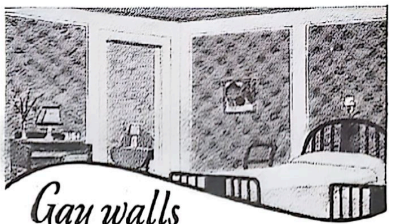

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Use kerosene and burn them green—seeds and stalks. Easy, clean, quick, cost half old methods. Used by road commissioners, country clubs, fruit growers, farmers. Does 3 men's work. Write for booklet and details.
Hauck Mfg. Co., 121 10th St., Brooklyn, N. Y.

Dry Climate Dahlias

WHEN I first planted dahlias in the land of drouth and hot winds I doubted the wisdom of the action—but I like to experiment. I had never raised dahlias before, but had for months been reading every word I could find regarding dahlia culture, tho none of the directions seemed to fit my case. It seemed that certain conditions of heat (or lack of it on the tubers) and moisture must be met. These I must find some way of supplying artificially since nature was lacking in these particulars.

The ground had been spaded deeply and worked well early in the season. About the middle of May (or a little before the last frost might be expected) I gathered up the tubers, the spade and my courage and proceeded to the selected spot, or perhaps I should say spots since I had decided to try them in two locations, and planted according to directions. The lack of rainfall was compensated for by a thoro soaking with the hose whenever conditions seemed to indicate the necessity.

The tubers responded beautifully, coming thru the ground right on schedule and growing like bad weeds. Faithful applications of hoe and hose kept them encouraged and their hearty response kept the gardener encouraged, a delightful game of tit-for-tat.

As the weather grew warm and dry the dahlias were mulched with the grass clippings, receiving another light mulch each time the grass was cut. The moisture from the green clippings helped to conserve that already in the ground, and kept the tubers from the wrath of the unclouded sun.

The plants grew to immense size and were loaded with beautiful blossoms of very large size and finest texture all thru the terrific heat of latter July and August, and cooler September found them still in full flower. All this in spite of the fact that staking had been neglected and the plants were at the mercy of the widely heralded "Kansas winds."

This was a mixed lot of dahlias being a collection of twelve ordered from a well known and reliable seed house. Every tuber grew and none seemed to do "best." All did equally well so that the method seemed commendable for a dry climate, and with any variety of dahlia.

At digging time the great quantity of large, well developed tubers was astonishing. Veritably enough to supply the neighborhood, which they did and the next year many dahlias grew where only one had been grown before.—T. E. McPherson, Colorado Springs, Colorado.

Spring Cleaning

NATURE is a good housekeeper.
The wind is her vacuum cleaner;
She washes her windows in water,
Softened with the sudsiest, whitest of clouds.
She is so fastidious that every year
She re-carpets in new green velvet
And re-tints her ceilings with sky blue.
When she is thru with the hustle and bustle of spring cleaning
She puts flowers about to brighten up her fresh abode;
And even finds time to take a proper civic interest
In the bird's spring building program.

—M. B. S.

AN URN or a bird-bath of beautiful Graystone will add a fresh element of beauty to your garden, yet seem to have lived years there. Its mellow gray blends at once with sky and leaves. Graystone is the garden pottery of Weller Ware. It is often pure Greek in effect. Its appearance suggests great price. Yet it is never expensive. Place an urn or a vase near a flight of steps or a low wall. Arrange an urn of vines where a hard place in the garden precludes planting. There are pedestals for sun-dials, child figures, footed jars. Weller Ware offers also a rich variety of colored art pottery and distinctive kitchen ware. Paula Morgan, authority on garden and home decoration, will give free advice regarding any decorative need. Write her in care of The Weller Potteries, Zanesville, Ohio.

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Give your new home the benefits of a

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Include a D-L Water System in the plans for your new home. Provide for an adequate water supply at all times. Pump water from cistern, deep or shallow well. Use all the water you want. Have hot and cold running water in the kitchen, bath and laundry. Sprinkle the lawn and garden. Protect your property against fire. Just turn a handy tap. At once... a strong, steady flow is released, *under pressure!*

Low Cost

A D-L electric pump is economical, too. It operates on central station current or current generated by a Delco-Light electric plant. Either way, the operating cost is remarkably low. This is true of all the models in sizes and capacities for homes both large and small. And all are low in price. Each pump is fully guaranteed by the factory. And any model is available on liberal General Motors terms, if desired.

Free Booklets

Send for the booklets that tell about the full line of D-L Water Systems. No cost or obligation. Write today.

DELCO-LIGHT COMPANY
Subsidiary of General Motors Corporation
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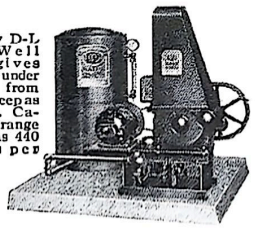
This new D-L Deep Well Pump gives you water under pressure from wells as deep as 300 feet. Capacities range as high as 440 gallons per hour.



Dependable Electric Water Systems

Also Manufacturers of DELCO-LIGHT Electric Plants for suburban homes and farms

Tips From Garden Note Books

Contributed by Readers

HERE is the way I saved my cucumbers last year. As I did not have the privilege of using a hose on my garden, I took large fruit cans, commonly called gallon cans, cut out the bottoms, and planted the cans where I intended to have the hills. Each can was buried to within an inch or two of the top and I filled it with a mixture of soil and manure, level with the ground. This left a little of the can above the ground. The cucumber seeds were planted around the outside of the cans in the usual way. Whenever there was a lack of moisture, I poured water into the cans, and a large amount was readily absorbed. I always did this in the evening, and no water was permitted to touch the plants. The plants certainly flourished and I had lots of cucumbers on the vines from these hills. All the hills planted in the ordinary manner dried up with the rest of the garden in the drouth of the summer.—C. D., Iowa.

IN order to get rid of plantain weeds that grow on the lawn, I fill an oil can with kerosene or gasoline and put a few drops in the center of each plant. This is easier than cutting or pulling and after one application the weeds begin to turn brown without injuring the grass.—Mrs. C. E. S., Pennsylvania.

A SAFETY razor blade is a most convenient tool for cutting flowers. We keep one on the window near the garden where it is always handy and saves running into the house for a pair of scissors. We have also found that old-fashioned peppermint in bloom is beautiful used as "greenery" in a bouquet. It not only adds much to the appearance, but the deliciously alluring odor gives much pleasure. So many of our friends have admired it and begged a start of this humble herb.—J. R., Idaho.

TAKE an old tin can and spoon with you when working in the garden, and collect the various bugs, slugs, and snails that you see. Slug eggs look in size and color like small grains of cooked tapioca and are mostly found in groups or clusters.—Mrs. G. E., California.

LAST summer when picking sweet peas, I arranged them with Shirley poppies and perennial baby's breath. The shades of sweet peas I used were Wedgwood (blue), orange, pink, white and Royal Scot (bright red). The poppies should be cut early in the morning and be newly opened. When this is done, they will stand up well.

The bouquets were so lovely that at first sight most persons thought they could not be real.—Mrs. O. H., Illinois.

TO keep the foliage of yellow privet from being stung and leaves curling up and dying, spray with the following: To one gallon of water (making it soapy with a whale oil soap) use one teaspoonful of nicotine sulphate and one teaspoonful of formaldehyde. Spray once a week and it will keep the foliage perfect.

Every season my yellow privet has been stung so I was greatly pleased to experiment with the above and find it so satisfactory.—G. M. S., Washington.

FOR many years we have had window boxes but none have been so successful as the ones that we used last summer. These were a joy from early summer until well into the fall, and tho the effect was simple to achieve, it was quite unusual. In the back part of the boxes we planted rosy morn petunias and in the front, blue lobelia. We used a few plants of variegated vinca for a green trailer over the front. The plants blossomed profusely thruout the summer and the boxes were the admiration of all our friends and acquaintances. As the boxes were continually exposed to the rays of the sun, we filled them first with sandy loam and then covered it with a two-inch layer of leaf mold. Well-rotted manure could also have been used. Another combination that we found very effective for an upstairs window, was rosy morn petunias backed with yellow snapdragons. We might have had better success with our window boxes if the plants used had been pot-grown rather than box-grown.—Mrs. F. K., New York.

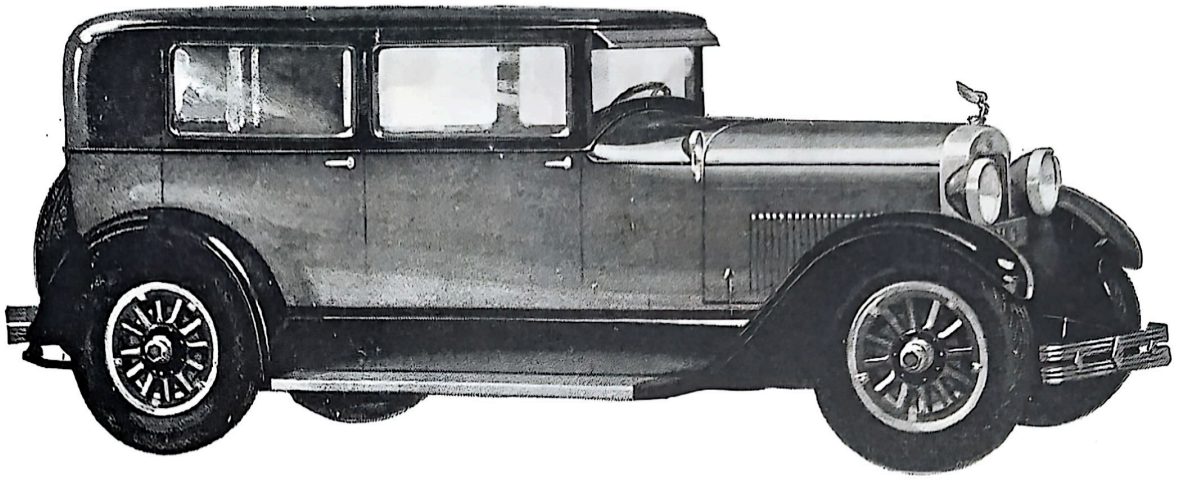
PEONIES can be kept long after the season if they are cut just before the bud breaks and put into the ice box or a very cool cellar. Bring them out to the light as you want them and put them into water.—E. G., Ohio.

WHEN digging around in your garden, plant purple iris around one of your early yellow roses. Around the purple larkspur, which you have in your garden, plant some coreopsis and see what dainty bouquets you can pick next summer.

Both larkspur and coreopsis may be raised from seed.—Mrs. J. C. I., Illinois.

DOES any reader find it difficult to keep seeds from one year to the next? I always had trouble until I thought of this little device. My husband smokes tobacco which comes in little sacks. (No doubt every housewife is familiar with them.) I wash these sacks and use them for seed containers and find them very handy. They can be tied securely and yet permit air to reach the seeds. I label each sack with ink or pencil. Pencil is better for it will wash out and the sacks can be used another year. As each one is filled, tied, and labeled, I drop it into a paper shopping bag. This larger bag can be hung in any preferable place and is findable.—Mrs. H. S., Illinois.

BONEMEAL is the best thing that I have ever used around rose bushes to make the blooms as well as the foliage a bright healthy color. Use only two tablespoonfuls around each plant and dig it well into the ground.—F. C., Texas.



so Women in *thousands* are turning to ESSEX

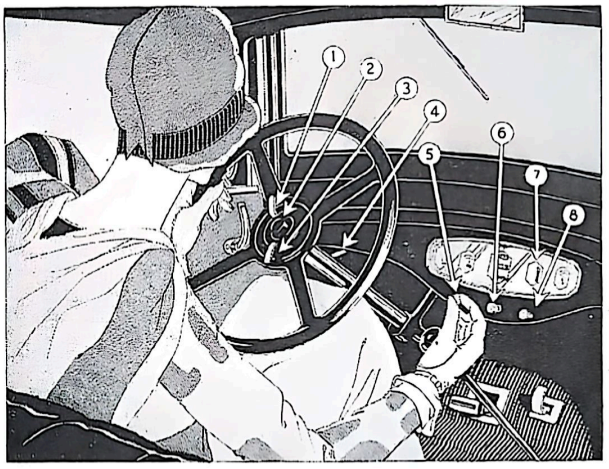
In the way women by thousands are turning to Essex is a story of the great and dynamic "man's Super-Six" made beautiful for women.

The stunning exterior grace and finish is carried on and heightened by the interior details of comfort, convenience and appearance.

You sit upon high-back, form-fitting seats upholstered in material that tells its quality to sight and to the touch. The winged radiator figure leads the eye out over a shining rhythm of cowl, hood, polished saddle type lamps and graceful arching fenders to the smoothly flying highroad.

You have before you every control in their most natural and handy place (see illustration). And all about you, the paneling, the weather-stripped doors, the silenced body construction, the floor-matting and the hardware in graceful silvery patterns speak quietly and certainly of quality.

In these and such things as the black rubber, steel-core, finger-scalloped steering wheel, the worm and tooth disc steering mechanism and the vertical radiator shutters, Essex visibly duplicates costly car practice, as it does also in the hidden things you never see.



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The beautiful Essex instrument board is of ebony finish, grouping under indirect light, motometer, gasoline gauge, oil gauge, speedometer and ammeter. Restful seating position with convenience, and operation ease all of controls, insure easiest driving you ever knew.

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ESSEX SUPER SIX

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YOU can have a lawn to rival the velvety, weedless green of a well-kept golf course—easily. Here's the simple way—

Fertilize With Arcadian Sulphate of Ammonia

Arcadian sets up a condition in the soil which encourages the growth of grass and discourages the growth of weeds. Use Arcadian and your turf will show a wonderful improvement—much healthier grass, much less weeds. Continue the Arcadian treatment and you will have a lawn free from weeds.

Recommended by Authorities

Arcadian has been thoroughly tested and proved by experienced users. Read what they say: "Results excel any results we have had from all other fertilizers in the past. We are so fully satisfied with Sulphate of Ammonia that it is our intention to use nothing but this fertilizer in future wherever top growth or quick results are required."—Woodall Floral Gardens, Elmira, Ont.

"....We have in Ammonium Sulphate (Sulphate of Ammonia) the best single chemical fertilizer that can be used on a lawn."—Geo. T. Moore, Dir. Mo. Botanical Garden.

ARCADIAN
Sulphate of Ammonia

Arcadian is easy to apply—just scatter it on the soil when the grass is dry and sprinkle thoroughly. (Full directions with each package). It looks like fine, dry sand; makes no muss and requires no raking up. No odor, no filler, no weed seed—just concentrated plant food (20¾% nitrogen guaranteed.)

$2.00 Worth Covers 2500 Square Feet

Economical, too! 10 lbs. Arcadian has more actual fertilizer value than 400 lbs. stable manure. The new, convenient 10-lb. household package—enough to fertilize 2500 square feet of lawn—costs only $2.00 delivered. If you have a larger lawn, or flowers and trees you also wish to fertilize, you can save $1.00 by ordering the 25 lb. size. It costs only $4.00. Just clip cash, money order or check to the coupon below—and mail today. NOTE: Arcadian will be sent you C. O. D. if you prefer. It costs just a few cents more to cover Post Office charge for handling your money.

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When It's Your Move

Continued from page 28

moving experience, the packer wished to place all the bedding in boxes, while I insisted that the sheets and blankets used on each bed be rolled inside of the mattress. Adequate protection was afforded and it was no trick to locate the bedding when the beds were made the first night in the new home.

Cards tacked to every box and trunk, listing the contents, eliminate many searches. If there are two floors in the home, tags of different colors may be used to assist the movers in carrying the boxes, rugs and other furnishings to the right floors. If there is time, the rooms may be numbered, too, and the tags can be given the proper numbers, so that the furnishings will get to the right rooms, too. The room numbers may be pinned over the doors. Children delight in cutting the tags from stiff colored paper or pasteboard, or from white paper and coloring them with crayons. Blue for the basement, green for the first floor, red for the second floor and yellow for the attic is a color scheme that works fine if the transfer men aren't color blind.

All drawers are locked or tied shut so they cannot come open along the way. If they are filled with anything heavy, the weight may loosen the furniture joints. Desks with thin legs present a problem. It never is advisable to leave anything in them that adds weight. Ink bottles, by the way, are best discarded.

Rugs, like mattresses are rolled and tied. If the rugs are rolled around a curtain or other pole, the danger of creases is not so great. So far as possible the clothing to be hung in each closet should be packed in the drawers of the furniture to be used in the bedroom from which the closet opens. In unpacking, many steps are saved by heeding this precaution.

OF all furnishings, those of the kitchen are about the most difficult to move. There never appears to be a proper place to put the pots and pans. Many of these have to be used at the last minute, and they will be needed soon after the arrival in the new home. I never have found anything superior to wash tubs and clothes baskets for holding these articles, for they are located so easily. Burlap or some similar material needs to be tied over the top to serve as protection against loss. Heavy utensils, such as the food chopper and flat irons, after being wrapped generously in paper, are best packed in a separate box. Another box, labeled plainly, is required for the tools, such as wrenches, hammers, screw drivers and boxes of nails, tacks and screws. Cereal and pasteboard boxes of all kinds that have been opened may be closed with strips of gummed paper.

When the owner is doing his own packing, he can keep his schedule of articles "in his head," but when everything is entrusted to a professional mover, it is advisable to have the more important things listed that they may be easily accessible when the unpacking is done. For instance the housewife is likely to need a dishpan first of all, in setting up housekeeping anew. One of my friends was unable to discover the dishpan until the very last crate was unpacked, when it was found stowed away in the ice compartment of the refrigerator!

Where's the can of

PLASTIC WOOD?

[Reg. U. S. Pat. Off.]

Don't worry about loose rungs when you can quickly and easily fix them yourself with Plastic Wood. Just smear the hole with Plastic Wood and push the rung back in—in a few hours the Plastic Wood will become solid wood, and the chair be as strong as new. Fix loose handles in the same easy way. Use Plastic Wood too for cracks and holes around the house, to keep out weather, dust, insects and mice.

For loose tiles, cracked porcelain or enamel, ask for Plastic Wood White Waterproof Tile Cement.

Handles like Putty

Hardens into Wood

1 lb. can $1.00 ¼ lb. can 35 cts.

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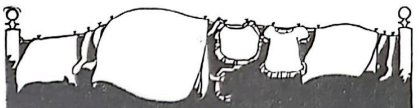

money!

Time is money—clothes are money! Save both. Use La France with soap in the laundry. La France cleans in half the usual time—without rubbing. Blues while it cleans.

Your grocer has

La France

LA FRANCE MFG. CO.
Philadelphia, Pa.

STANDARD GARDEN TRACTORS

Plows Seeds Cultivates Mows Hay and Lawns

A Powerful Tractor for Small Farms, Gardeners, Florists, Nurseries, Fruit Growers and Poultrymen.
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The idea of just leaving your house as it is and then placing your goods in your new home when they arrive there, without the tribulation of doing your own packing, is not always quite so alluring as it may seem. The personal touch is desirable in moving, as well as in every other operation connected with home-making.

If one is moving to another home in the same town, bedding and clothing requiring cleaning may be sent to the dry cleaner's a few days before the moving and delivered later to the new home. If pillows and mattresses need renovation, this is an excellent time to have some of the work done. Rugs can be sent out to be cleaned, too, and furniture renovation might be taking place, provided some of it is to be done away from home.

Food long has had the reputation of being able to keep husbands good natured. On the moving day it is particularly efficient in keeping all of the family in a joyful frame of mind. The transfer men appreciate having cold water or a fruit drink, fresh fruit and a sandwich. It pays to start the day with a substantial breakfast, consisting of fruit, cereal, eggs and bacon, milk and coffee and toast. The lunch will probably have to be packed in a basket, since few families want to take time to clean up and dine at a public place. If a vacuum jug is available, or a vacuum bottle, a hot soup may be provided easily. Canned baked beans may be warmed on an electric grill. With raisin brown bread sandwiches, fresh fruit and drop cookies or cakes, made the day before, a very good picnic meal is provided. By supper time the stove will be in place, when a simple meal of poached eggs on toast, fresh salad, fruit, cookies, milk and tea may be served.

Then comes the first night-time under the new roof-tree with a blessed tired feeling that provokes sleep. It is a happy ending, and that is what counts most. Sometimes people move from shattered homes, as thousands of people in France and Belgium know. Most of us have the joy of moving into more satisfactory surroundings than those we have left behind. That is why moving is not so dreadful as it might be even tho a vase gets broken or a table scratched.

Adventures In Home Beautifying

Continued from page 37

we can mail them to you. These produce brilliant colors, do not spread or change the texture of the sheerest material, and clean without fading. Painting set No. 531 consists of six bottles of dye, one jar of painting medium, one jar of painting black, instructions and a brush for $2.25, plus 25 cents postage; a total of $2.50. Then we have a studio set, No. 532, (at $5.50 plus 25 cents postage, or $5.75 in all), which contains everything mentioned in the painting set above plus an extra bottle of paint, two red sable brushes, a plastic dusting brush, tube of plastic, cones for using, and envelopes of gold, crystal luster beads, wool dust and cut steel. This set also has a porcelain studio slab for mixing, and is very complete. These sets have been tested on many fabrics and are highly practical for the beginner as well as for the artist and designer. Of course there is ample material in one of these sets to do many pieces.

Whenever you look at a handsome asphalt shingle roof with the idea that you'd like a similar one, consider this important fact . . . . .

TWO asphalt shingle roofs may appear similar in every respect—but what is under the crushed slate surface you admire so much?

If the base is *Genuine* Ruberoid—strong and tough, and of surpassing durability—then you are assured that the whole roof will be fire-resistant and will safeguard the building it protects and safeguard also your investment in it.

And for a very simple reason. The Ruberoid Co., which pioneered in the prepared roofing field, has maintained from the start a corps of chemists in a constant attempt to improve upon the Ruberoid basic formula.

Thousands of variations have been worked out and tested and no variation has ever been able to match in durability the original formula which is still in use today. That mixture of blended asphalts and gums under the beautiful slate-surfaced finish has stood the telling test of time through hot, dry summers and freezing winters for 20, 25—and 30 years in all parts of the world.

There are Individual-shingles. There are several popular designs of Strip-shingles. There are Roll-roofings. There are Built-up Roofs. No matter what type you may choose you will find a *Genuine* Ruberoid Roof in the color you want and at the price you wish to pay.

Moreover, although the popularity of Ruberoid has invited many imitations, no one has been able to supplant *Genuine* Ruberoid in popular esteem.

Your favorable impression of *Genuine* Ruberoid will be even more favorable when you get in touch with the dealer who supplies your community. He has been chosen because of his ability and financial responsibility and his intimate knowledge of local conditions in the building industry. How he can help you is explained in the paragraph below.

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We aim through our authorized dealers not only to supply you with a dependable line of colorful fire-resisting roofings but also help you secure a well applied Genuine *Ruberoid Roof. The carpenters, contractors and roofers recommended by the dealer in your community handling* Genuine *Ruberoid take pride in making sure that through careful application a* Genuine *Ruberoid Roof will provide you the long years of service it is built to give. Indicate on the coupon the type of building you desire to roof or re-roof. The Ruberoid dealer is at your service.*

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SHINGLES — ROOFINGS
Colorful Varieties · Durable · Fire-Resisting

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Please tell me where I can secure *Genuine* Ruberoid Shingles and Roofings for the following buildings:

☐ House ☐ Garage ☐ Church
☐ Library ☐ Theatre ☐ Factory
☐ Store ☐ Warehouse

Name..... Address.....

A Naturalistic Rock Garden

FRANCIS A. ROBINSON

Member American Society of Landscape Architects

IS it mental or physical laziness that has made so many of us insist on a flat lot when we buy to build? So many people have thus insisted that in some sections of the country there is a premium paid for the flat lot.

The charms in store on an uneven or broken house lot go begging and yet if you are looking for individuality, for an opportunity for self expression, for something different from your neighbors, this is the lot to seek.

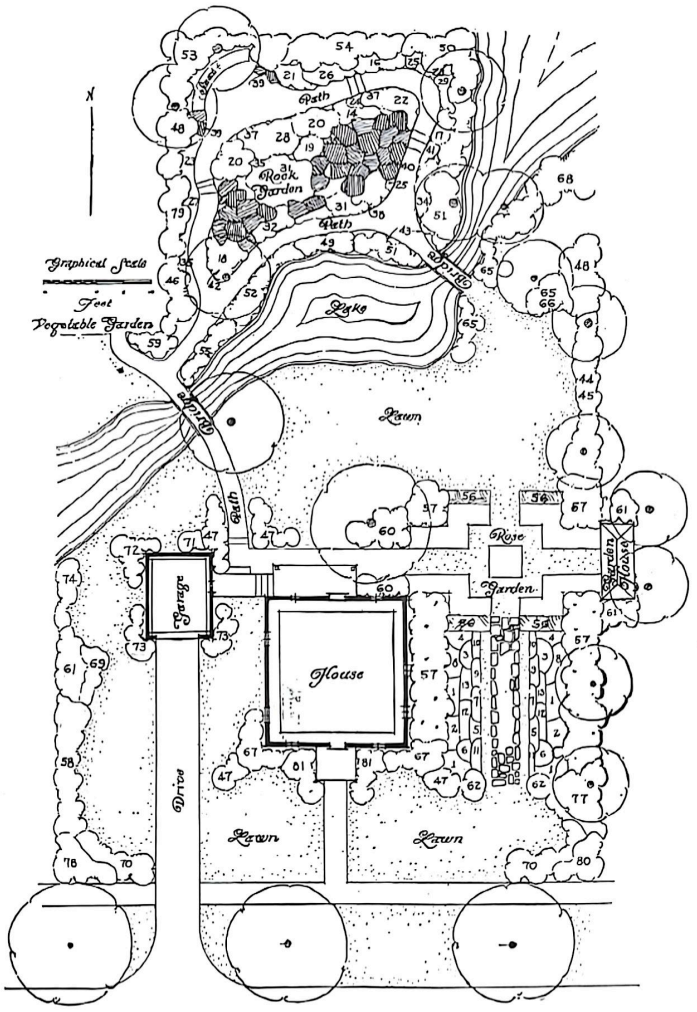
Take, for example, the lot that slopes slightly away from the street and right thru the back of it runs a small ravine, draw or dingle (depending on what section of the country you live in). To some this is an insurmountable obstacle to an attractive development. Why not treat it in the manner here presented? Build a little dam of concrete faced with stone to disguise its artificiality and impound a little pool or lake. Let the lawn in informal style run down to the edge of the water on the side nearer the house, but on the opposite side naturalize the waterside plants of your locality. Put some tubs of water lilies in the bottom of the pond scattered about irregularly. Almost immediately the surroundings are enhanced in beauty. The reflection of the flowers and the blue sky in the water, the murmur of the water flowing over the dam make incalculable increases in home value to you.

The bank on the other side of the pond affords another opportunity for improvement. Here by using existing rock outcrop or skillfully introducing stones to simulate nature a most attractive naturalistic rock garden may be formed. To reach it a bridge may be built on the dam and another farther upstream. At the top of the bank a rustic seat under a spreading tree provides a vantage point from which to view the rock garden, lake and the lawn stretching up to the house beyond. The winding path of gravel or grass may climb the bank by means of log or stone steps placed in the side of the hill at intervals in an irregular and informal manner. Planted along the sides of the path and in between the rocks the woodland plants which thrive on partial shade and little soil will grow luxuriantly.

This same lot, however, need not give up all of the features of a flat lot, for nearer the house whose formal lines make it more effective, a little rose garden with squared beds and a perennial garden of the more refined varieties very readily find a place. A garden house at the end of a long grass (*Continued on page 140*

Key to Planting List

Key	Latin Name	Common Name
	Perennials for Flower Garden	
1	*Althaea rosea*	Hollyhock
2	Aster	Mrs. J. F. Raynor-Aster
3	*Aquilegia hybrids*	Colorado Columbine
4	*Coreopsis lanceolata*	Lance Coreopsis
5	*Campanula carpatica*	Carpathian Bellflower
6	*Chrysanthemum maximum*	Shasta Daisy
7	*Dianthus plumarius*	Grass Pink
8	*Delphinium hybridum*	Mountain Larkspur
9	*Iberis sempervirens*	Evergreen Candytuft
10	*Myosotis*	Hort. Var. Dwarf Perpetual Forget-me-not
11	*Nepeta mussini*	Catmint
12	*Phlox divaricata*	Blue Phlox (Blanche)
13	*Phlox divaricata*	Blue Phlox (Helma)
	Perennials for Rock Garden	
14	*Achillea sibirica*	Siberian Yarrow
15	*Arabis alpina*	Alpine Rockcress
16	*Arabis mollis*	Downy Rockcress
17	*Alyssum saxatile*	Goldentuft Alyssum
18	*Anthemis tinctoria*	Yellow Camomile
19	*Aquilegia canadensis*	American Columbine
20	*Dianthus barbatus*	Sweet William
21	*Gypsophila repens*	Creeping gypsophila
22	*Geranium sanguineum*	Bloodred Cranesbill
23	*Iberis sempervirens*	Evergreen Candytuft
24	*Iris pumila*	Dwarf Iris
25	*Iris gracilipes*	Slender Iris
26	*Linum perenne*	Perennial Flax
27	*Mertensia virginica*	Virginia Blue Bells
28	*Myosotis alpestris*	Alpine Forget-me-not
29	*Papaver alpinum*	Alpine Poppy
30	*Papaver nudicaule*	Iceland Poppy
31	*Phlox amoena*	Amoena Phlox
32	*Phlox subulata*	Moss Phlox
33	*Saponaria ocymoides*	Rock Soapwort
34	*Viola cornuta*	Tufted Pansy
	Bulbs for Rock Garden	
35	*Anemone fulgens*	Flame Anemone
36	*Anemone apennina*	Apennine Anemone
37	*Crocus sustanus*	Cloth-of-gold
38	*Chionodoxa luciliae*	Glory-of-the-snow
39	*Erythronium hendersoni*	Troutlily
40	*Fritillaria meleagris*	Checkered Fritillaria
41	*Muscari*	Grape-hyacinth
42	*Narcissus poeticus*	Poet's Narcissus
43	*Scilla sibirica*	Siberian Squill
	Deciduous Shrubs	
44	*Aronia melanocarpa*	Chokeberry
45	*Aronia arbutifolia*	Red Chokeberry
46	*Acanthopanax pentaphyllum*	Five-leaved aralia
47	*Berberis thunbergi*	Japanese Barberry
48	*Cornus alba*	Tatarian Dogwood
49	*Cornus amomum*	Silky Dogwood
50	*Cornus paniculata*	Gray Dogwood
51	*Ceanothus americanus*	Jersey-tea
52	*Cephalanthus occidentalis*	Common Buttonbush
53	*Euonymus americanus*	Brook Euonymus
54	*Hamamelis virginiana*	Common Witch-hazel
55	*Ilex verticillata*	Common Winterberry
56	*Ligustrum amurense*	Amur Privet
57	*Lonicera Bella albida*	White Belle Honeysuckle
58	*Lonicera tatarica*	Tatarian Honeysuckle
59	*Lonicera morrowi*	Morrow Honeysuckle
60	*Philadelphus lemoinei*	Lemoine Mockorange
61	*Philadelphus grandiflorus*	Big Sweetless Mockorange
62	*Rosa hugonis*	Hugonis Rose
64	*Rosa rubiginosa*	Sweetbriar
65	*Rosa setigera*	Prairie Rose
66	*Rosa blanda*	Meadow Rose
67	*Rhodotypos kerrioides*	Jetbead
68	*Rubus odoratus*	Flowering Raspberry
69	*Spiraea* Hort. Var.	Anthony Waterer Spirea
70	*Spiraea* Hort. Var.	Vanhoutte Spirea
71	*Syringa vulgaris*	Common Lilac
72	*Syringa vulgaris*	Common Lilac
73	*Syringa vulgaris*	Common Lilac
74	*Syringa persica*	Persian Lilac
77	*Viburnum dentatum*	Arrowwood
78	*Viburnum lantana*	Wayfaring-tree
79	*Viburnum prunifolium*	Blackhaw
80	*Viburnum lenago*	Nannyberry
81	*Weigela* Hort. Var.	Weigela



If Wild Beasts Roamed *the* Streets *You Would Take Precautions*

YOU would protect your family from a tiger's clutches—but are you guarding it against the onslaught of disease? Have you all possible protection against the deadly germs carried by pestilent insects?

Keep the danger away—keep the insects OUT with Sun-Red Edge AluminA Screen Cloth. Here is a screening which will outlast ordinary galvanized screen cloth two to one under the same conditions.

Sun-Red Edge AluminA is specially treated to resist rust (for even small holes allow thousands of insects to enter). It is perfectly woven of heaviest standard wire, not too close to prevent clear vision but close enough to keep out all invaders.

You can always identify this better screening at your dealer's by the self-measured Sun-Red Edge (measure marks every six inches) and by Sun-Red ends of every roll—our nationally known trademark, your guarantee of quality.

Sun-Red Edge is the *only* self-measured and trademarked screen cloth, and is furnished in AluminA, Black Painted and Copper Bronze.

SUN-RED EDGE
SELF-MEASURED
SCREEN CLOTH
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Look for the Sun-Red ends on every roll

REYNOLDS WIRE CO. · Dixon, Illinois

Our decorator will send you a color plan for your rooms *Free*

To get the plan all you need to do is to fill in the coupon below indicating the size, exposure, etc., of your room. From these details Miss Rosalie Norton, our expert decorator, will send you samples of the new Puritan Doulton Cretonnes and other fabrics for glass or draw curtains, slip covers, pillows, scarfs, etc., as well as clippings of wallpaper—a complete decorative plan exactly suited to your room.

Puritan Doulton Cretonnes are guaranteed sunfast and washable

Smart in design, pleasing in color, they will give character to your home. For the sunny room there are light absorbing blues and greens, with just a dash of lacquer red or gold for sparkle. For the dark room there is orange and luminous yellow, colors which give the effect of sunlight. There are designs planned for low ceilings, and others for high ceilings, for large rooms and small ones—indeed there are designs for every type of room.

Puritan Doulton Cretonnes are sold in all leading department stores. You can identify them by the sunfast and washable guarantee printed on the selvage and the red tag on the bolt.

You will also be interested in the new booklet, "Cretonne Solves the Problem", which can be had for 25 cents. It is a practical guide to the use of cretonne and gives directions for making many decorative accessories.

Puritan Cretonnes

F. A. FOSTER & CO., Inc., *Dept. B 41*
330 Summer Street, Boston, Mass.

Sirs:—Please send, at no charge, decorative schemes for the rooms which I have checked.

I enclose 25c for booklet, "Cretonne Solves the Problem."

Key to chart: Large-Lar; Small-Sm; Medium-Med; Sunny-Sun; North-Nor

Room	Lar.	Sm.	Med.	Sun.	Nor.	CEILING Hi.	Low	Med.
Living								
Dining								
Bedroom								
Sunroom								
Kitchen								

Name.....

Address.....

City.....State.....

The Modernized Piano

Continued from page 23

come to regard it as an essential part of child education. In fact, today piano study is regarded as so important for a child that it is an integral part of the public education of children in almost two hundred cities. After exhaustive research, educators have come to the conclusion that the piano offers the finest and most direct approach to the field of music and musical performance.

The appeal of the piano and the reasons why we should learn to play are sound. They have never been and could not be anything else. As a result of our constantly growing desire to be individual in our social life, the appeal of the piano is today stronger than it has ever been.

IN another respect this glorious instrument of cultured composers has been a true pioneer. We don't have to look back very far to realize how much American home living conditions have changed. Twenty-five years ago the furniture that found standing room in the average American home was just so many pieces of firmly assembled wood and upholstery. Chairs upon which we sat, the beds we slept in, the tables that held our meals, were mute expressions of utility. Furniture manufacturers paid little attention to making beauty a part of home life. Utility was paramount in every phase of industry.

Because of their chosen vocation, piano manufacturers were closely identified with the making of things beautiful, and after generations of piano building, their intangible product, music, could not have been more beautiful. As a result of the exquisiteness of the music which emanated from their creations, the idea grew within their ranks that the conventional cases in which were contained these sonorous tones were not in accordance with the beauty of the music they produced.

They delved into history and following years of research brought forth once again the creative designs of antiquity. They were given modern expression in piano cases. To these piano builders we owe a debt of gratitude for placing beauty once more beside utility. Our homes today, as a result of their efforts, are more artistic, more pleasing to look at, than ever before. They blazed the trail where others feared to tread. That part of American industry whose products were sold into the home followed suit and drawing a leaf from the book of these piano creators, they made beauty a part of their product. And so beauty, like Joseph of Bible fame with his coat of many colors, returned in greater glory than ever before to its rightful place in the American home.

No matter what school of artistic design finds expression in your home, there is a piano made to blend with the scheme of your surroundings. If the atmosphere is Old Colonial, there is a piano which you can put into it which reflects the memory of these celebrated days. Going back further in history, pianos are made which re-live the creative ideas of such famous eras as those of King Charles V of Spain, Queen Anne of England, Louis XIV of France or Queen Victoria.

If the creators of the antiques we used to marvel at could live again and see how modernity has re-created the art which

JOHN HANCOCK SERIES

BUILD BY BUDGET

The Architect of Family Finance

THINK of a house built without a plan! What haphazard lines it would have—what uncomfortable quarters it would provide!

The first step of the HOUSE-MAKER is to have a plan. He conceives a perfect structure, whose different units fit together. He makes it practical by *careful measurement.* He builds by BUDGETING his space.

The HOME-MAKER too must draw her plans and *make her financial measurements.* She too must BUILD BY BUDGET.

The John Hancock Home Budget Sheet is an excellent expenditure plan already drawn for you to adapt to your specific needs. It will help you to construct with skill your personal financial estate.

Sent on request. Please enclose a two-cent stamp to cover the cost of mailing.

Write Inquiry Bureau

John Hancock MUTUAL LIFE INSURANCE COMPANY OF BOSTON, MASSACHUSETTS

197 Clarendon Street
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THIS SIX ROOM English-Type Bungalow NOW $865 FREIGHT PAID

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We Loan You Money to Build

We will ship you this home complete, lumber cut-to-fit, and ADVANCE YOU CASH to help you build. You pay us in small amounts monthly—about what you pay for rent. This year prices are lower than ever. Our customers claim average savings of 47 per cent. compared with what local contractors charge.

COLOR BOOK OF Sterling Home Plans 25c

PAY AS LOW AS $16 PER MONTH Payments are even lower on other Sterling homes. Send 25c in coin today for beautiful Color Book of Sterling Home Plans and see how easy it is now to make your dream of a home come true.

International Mill & Timber Co.
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Give 5 Minutes a Day

Look years younger

Beauty of face is more than skin deep—it depends on keeping young and elastic the tiny muscles just beneath the skin. Lack of exercise causes them to weaken, droop, be flabby. Then one begins to "age", lose youthful expression and fresh complexion.

Kathryn Murray's Facial Exercises

Can soon build up, restore and keep you youthful throughout life. Thousands testify to merit. Simple, pleasant, 15 years of success. Selected to individual use. Results guaranteed. Book free in plain envelope. Write today. KATHRYN MURRAY, Suite 533, 5 S. Wabash Ave., Chicago, Illinois

they knew so well, they would marvel at the 20th century piano. All the genius that gave to the world those gems of line and curve is perpetuated in the cases which hold the loveliest treasure chests of melody. Pianos today are being manufactured in various lovely hues. No longer do we have to be content with the conventional colorless cases of years ago. There are lovely pinks, blues, yellows and reds, any of which would bring together in one wonderful combination the many colors which are found in the average living room.

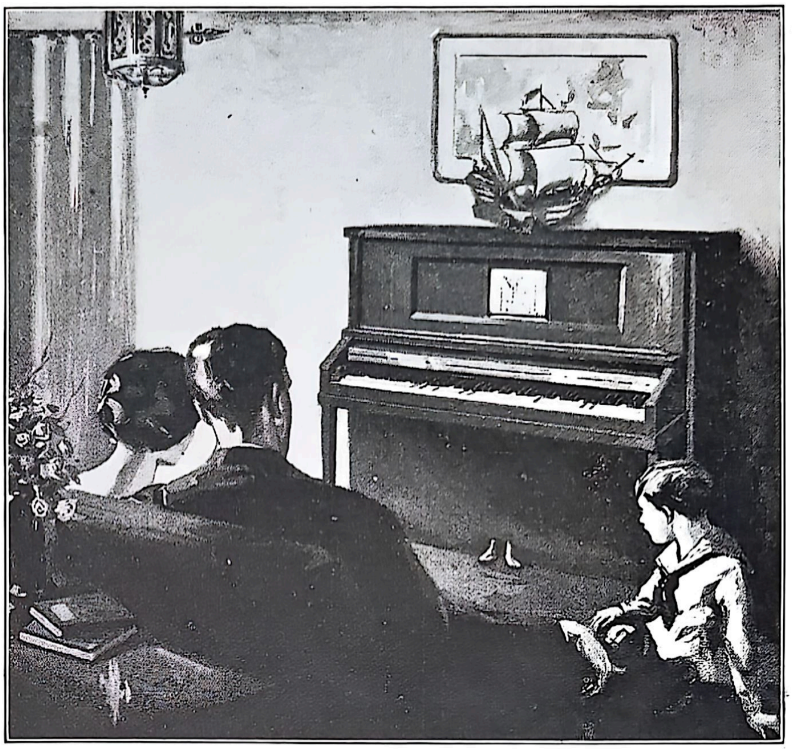
THERE are pianos of all sizes. They are no longer cumbersome but made small so that they take up but little floor space. There are large pianos for large rooms, small pianos for small apartments. They range in size from the majestic concert grands down to the little baby grands and uprights which carry a five octave keyboard and weigh less than 300 pounds.

The appeal of the piano, from the standpoint of lovely and exquisite case designing, is somewhat new, but there is another chapter in the story of the piano, which, while not new, is just beginning to make its presence felt. Methods of piano study have been undergoing a change for the past twenty-five years. It is easier today to learn to play the piano than it has ever been. We remember years ago when many a little boy or girl derived but little pleasure in learning to play. Unless he were an infant prodigy the hours of scales and exercises that were necessary before he could enter the field of actual playing were tiresome and monotonous. It was probably for that reason that few children in comparison to the many who started ever finished their piano training.

The advantages to be derived from the ability to play the piano were so obvious that educators and thinking musicians began extensive research work, the purpose of which was to determine whether or not piano study could be made less wearisome, more pleasant and more interesting. Today there are available methods of piano study which your child can enjoy.

These pioneers in the field of piano education have discovered that children enjoy studying the piano in groups of from ten to twenty instead of individually. With this new method, their interest in the piano is alive from the very start because they play melodies and harmonies from the very beginning instead of scales and exercises. This new idea has been called class piano instruction. There are many schools thruout America which are annually turning out thousands of teachers equipped to teach the playing of the piano with this new method. Based on the psychologically sound idea that children enjoy studying things together rather than alone, class piano instruction is a decided success.

Under the new class piano instruction method, children progress as far in one year as they did under the old method of private instruction in five. These two latest chapters in the story of the piano coupled with the appeal of charm and culture which it has always had, are contributing to greater interest in piano study. People have an innate desire to make music for themselves and the piano is the instrument upon which this urge for musical self performance is to be realized in the fullest sense of the word.



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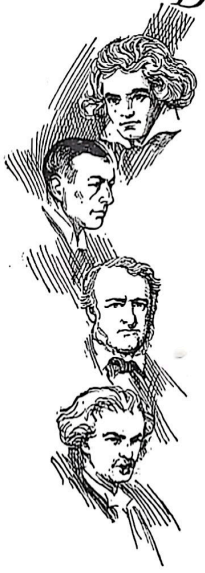

Music for every mood, for every occasion is yours to command, with the new Wurlitzer Upright Treasure Chest of Music—the piano that plays for you.

Just touch a button, and old fashioned melodies, famous ballads, stirring symphonies, popular airs, the latest dance numbers, any selections of your choice, are rendered by this marvelous little instrument with all the vivid expression and rare technique of the master artist.

Beautiful in finish, superb in its clear, full-rounded tone, automatic in performance, the Wurlitzer Upright Treasure Chest of Music is without an equal in value. Only $535, plus transportation, convenient terms. If you have not yet seen or heard this newest Wurlitzer, a real pleasure awaits you—at your nearest Wurlitzer Store or Dealer.

WURLITZER upright
Treasure Chest of Music
the Piano that Plays for You

THE RUDOLPH WURLITZER MANUFACTURING CO.
North Tonawanda, N. Y.

THE WURLITZER GRAND PIANO CO.
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Dealers and Branches Everywhere

The Treasure Chest of Music (shown at the left) brings you supreme entertainment at a saving of hundreds of dollars. Three beautiful models, priced at $995—$1195—$1350, plus transportation.

WURLITZER, North Tonawanda, N. Y. *Please send me complete information on the new Wurlitzer Upright Treasure Chest of Music.*

Name_____

Address_____

City_____ State_____

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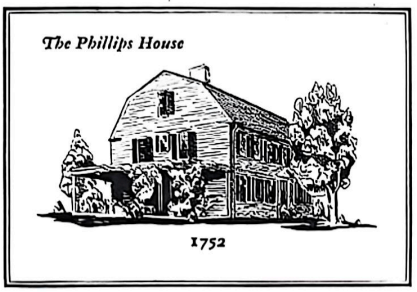
IWP

The finest building traditions of America *are recorded in White Pine*



The Phillips House, North Andover, Massachusetts. Built of White Pine, and still standing.

WITHIN the green borders of New England a thrifty, intelligent people built their empire. The seat of that empire was the home. Many of those homes stand today, a tribute to the skilful use of tools, and the famous wood with which these craftsmen built—White Pine.

Little old growth White Pine remains in New England forests today. But under the name of Idaho White Pine, millions of feet of this same wood still stand in the Inland Empire of our great Northwest.

This splendid wood works easily under carpenters' tools, and takes paints and stains beautifully. The finish remains smooth and satiny, unaffected by the most severe weather conditions. Even under many years of exposure, Idaho White Pine retains its charm, and its remarkable serviceability.

Idaho White Pine is carrying on the building traditions of three centuries. Inside or out, it is the ideal finishing lumber. For special sash and doors, for siding, porches, cornice work and any sort of interior trim whatsoever Idaho White Pine fits the requirements exactly. Particularly are the common grades well suited for knotty pine paneled woodwork because its small tight knots dress smoothly. Nothing takes the place of genuine White Pine. Dept. 125, Western Pine Manufacturers Association, Portland, Oregon.

Idaho
GENUINE
White Pine
THE PINE WITHOUT A PEER

A Miniature Rockery

PHOEBE HART SMITH

THE very words "rock garden" have a certain fascination for most gardeners, particularly strong for those who, like myself, are condemned to a tiny garden and a flat pocketbook.

Beginning in February, 1923, having visited the flower shows where such marvelous rock plants may be seen, I determined to learn to know some of these fascinating plants. And, of course, the only way to learn to know them is to grow them and to live with them.

I had no hotbeds, coldframes or anything else necessary to the raising of plants from seed. But I had an unheated room, with two large windows facing south.

Searching the catalog for the seeds to begin with is a great part of the fun. The second year there are many that you will not dream of trying, but that first year there is no limit to the possibilities of one's imagination! To begin safely, many of the pinks are most satisfactory, particularly *Dianthus caesius*, the Cheddar Pink, and the various hybrids such as *D. plumarius* and *D. fragrans*. Then arabis, aquilegia, aubretia, cerastium, iberis, *Saponaria ocymoides*, arenaris, violas, and you are already started well on the way for a collection of the easiest of the rock plants, and all at a cost of about fifteen cents a package.

For raising these from seed, I bought a dozen ten-inch bulb pans, as they are called, with saucers the correct size. They are really a good investment, as, barring accidents, they are good for an indefinite number of years.

These were soaked overnight in cold water, as new clay pots will absorb all the moisture and the soil becomes abnormally dry. The ash pile furnished the drainage, and the pans were filled half way up with clinkers. Then about two inches of the well-known recipe for rock plant soil—one-third good soil, one-third sand, and one-third leaf mold. The first two were easily obtained from the back yard and from a nearby building operation, but the last had to be bought from a nursery. These were well mixed and sifted, then the filled seed pans stood overnight in their saucers with all the water they would hold. Each pan was marked with a piece of adhesive tape on which was the number corresponding to those on the seed list for each variety to be planted.

Next morning, they were ready for the seeds, sown as thinly as possible, covered very lightly with the same three-mixture soil, and a piece of tissue paper cut to fit the top of the pan placed on top. The first few days they take careful watching, as this paper must be kept damp—not wet.

AFTER four or five days, or a week at most, the seeds began to break open and the first bit of cheering green appeared. The paper was removed and water poured into the saucer. In four or five weeks the seed pans were crowded; then came the fun of transplanting the baby seedlings, using a small waterproof paper pot for each one. I used the same drainage in the small pots, breaking the clinkers into bits. By the end of May there was a wonderful collection of plants, all ready for outdoor planting.

These home-grown seedlings have the added advantage of being ready to plant when you are (*Continued on page 120*

The amateur can learn much by observing natural rockeries

THE distinctive effects easily obtained with Johns-Manville Asbestos Shingles are illustrated by the roof colors of this house at New Rochelle, N. Y. This roof is of Color-blende Shingles in random exposures. The cottage below shows the pleasing and economical French style of roofing by the use of Johns-Manville Hexagonal Asbestos Shingles.

Roofs that add charm to a cottage, or distinction to a large house

FIRST of all your home must look well. Modern taste demands color in the roof. But it must be harmonious color, soft, warm, smart because of its simplicity. Such are the colors of Johns-Manville Asbestos Shingles. They are natural rock colors as everlasting as the shingles themselves.

Johns-Manville Asbestos Shingles are unharmed by the elements. Fire, wind and water cannot hurt them. They will not burn, curl, rot nor leak. They make a roof that is really permanent—one under which your grandchildren's children may play. Yet their first cost is low, and it *ends your roofing expense.*

Permanent Charm— Always Fireproof

The thick, sturdy construction of these shingles and their pleasing texture is unique. Roofs covered with them have the "shadow lines"—the subtle note of quality that good taste demands.

Roof your new house or re-roof your present home with Johns-Manville Asbestos Shingles. Whichever you do you will have laid a roof that will never have to be replaced. You will have added to your home, and to your neighborhood, a touch of unobtrusive beauty which will be permanent.

There's no mystery about roofing

Roofing is either fireproof or it is not. Either it is *permanent* or it is of uncertain life. Either it is solid, thick, distinguished, smart; or it is thin, cheap looking, commonplace. Everyone knows Asbestos will not burn. Johns-Manville Asbestos Shingles are really fireproof. Asphalt shingles are "fire resistant." Johns-Manville Asbestos Shingles are permanent. Asphalt Shingles require replacements.

Put Johns-Manville Asbestos Shingles on your roof. Any contractor, building material or lumber dealer can furnish you Johns-Manville Asbestos Shingles. If he does not stock them he can get them from one of our Authorized Distributors.

Be sure to get the Certificate which goes with every genuine Johns-Manville Asbestos Shingle roof. Your roof will then be recorded together with the name of the roofer, and that of the dealer who supplied the Shingles. This certificate insures you the protection of our full guarantee.

JOHNS-MANVILLE—MASTER OF ASBESTOS

Johns-Manville was the pioneer developer of asbestos. Without the many uses to which this remarkable mineral is now put, modern industry could not exist, nor would modern life be as comfortable as it is.

Improved Asbestocel, which insulates the heating pipes in modern homes, high pressure insulations for great steam mains, are Johns-Manville products. So also is Johns-Manville Asbestos Brake Lining—a dependable, powerful, positive control for motor cars at all speeds. Hundreds of other Johns-Manville Asbestos products save money and trouble for engineers, and for railroad and industrial executives.

JOHNS-MANVILLE
ASBESTOS SHINGLES
BRAKE LINING AND INSULATIONS OF ENDURING FIREPROOF ASBESTOS

FREE—Booklet of Color Combinations for Roofs

JOHNS-MANVILLE CORPORATION
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Send me your free booklet showing how to choose the roof most suitable for my house.

*Name*_____ R10

*Address*_____

"Cheap" Paint always gets the *laugh* on you

***You can't paint a house with* APPLESAUCE!**

HAVE you ever had someone play a smart trick on you *and then laugh at you?* That is what "cheap" paint does *every time.*

The low price and the rosy promises make a very enticing bait. But when you try putting that "cheap" paint on the wall, the "joker" pops up.

You use gallon after gallon. You have only a *cheap looking job*—and your material bill is just as big.

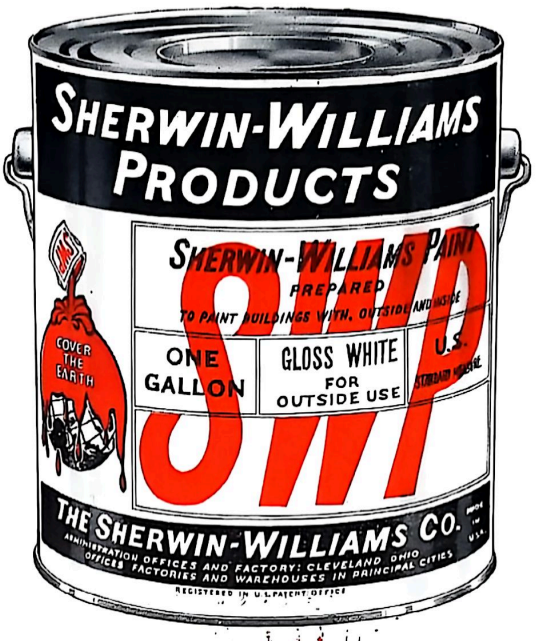
That's where "cheap" paint gets the laugh on you.

Why fine old SWP costs less

In fine old SWP House Paint only the highest quality of ingredients is used. We make our own zinc oxide and white lead. No zinc oxide or white lead offered on the open market can exactly meet the rigid requirements we demand.

We manufacture our own *linseed oil* to standards which are exceptionally high. All S-W colors (except natural earth and minerals) are made in the Sherwin-Williams Color Works.

It is due to these superfine ingredients and the famous Sherwin-Williams "balanced" formula, that 7 gallons of SWP House Paint will do a better job than 11 gallons of average "cheap" paint.



"Standard of quality, the world over"

Saves over 50% on repainting

A gallon of SWP will cover 360 sq. ft. (two coats). Will "cheap" paint do that? No! The best it will do is 250 sq. ft. per gallon (two coats). And the job *looks* cheap in the bargain.

SWP House Paint lasts, on the average, for five years. And even in the fifth year the superior quality of the finish and the beautiful colors is apparent.

"Cheap" paint, on the other hand, quickly develops weather weakness. It has no backbone. It cracks, chips, chalks, fades. In five years it will need two or three and often more repaintings.

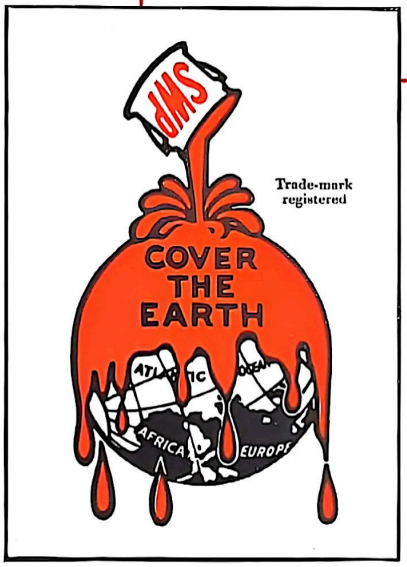
Do you wonder that these facts are converting thousands to fine old SWP?

The Master Touch

The SWP formula is openly printed. Yet no one has ever equaled this famous house paint. That is because it is made with the Master Touch —that inimitable finesse of the great scientist.

Like Edison, Burbank, Marconi and others, the scientific men at the head of the great Sherwin-Williams laboratories have this "Master Touch." It shows in the superfine quality of the ingredients made by Sherwin-Williams—in the scientific "balancing" of ingredients—in the perfect grinding and mixing to a creamy-smooth texture —in the critical analyzing and inspecting that guards every step in the process.

No "cheap" paint even attempts this perfection. The most skilled cannot duplicate it. And, of course, no individual can even hope to approximate the results, by hand mixing alone.



Up-to-date Painters

endorse and use fine old SWP. They know that its equal in flowing, covering, hiding, durability, colors, cannot be produced by hand mixing alone.

See "Paint Headquarters" and save money

No "cheap" paint product is ever cheap. Whether it is varnish, paint, lacquer or enamel, the "price-per-gallon" has little to do with the cost. Remember, too, that it costs no more to apply Sherwin-Williams *quality* than a "cheap" product.

Don't let "cheap" paint get the *laugh* on you. See your local Sherwin-Williams dealer. He is the recognized "Paint Headquarters" in your locality. He has the famous Household Painting Guide. Get his advice.

If you want the name of a painter who will finish your home in fine old SWP House Paint, write us. We will also send you advice on color schemes, for inside or outside, literature on any paint, varnish, lacquer or enamel, or a personal copy of the famous Sherwin-Williams Household Painting Guide, upon request.

THE SHERWIN-WILLIAMS CO.
Largest Paint and Varnish Makers in the World
Cleveland, Ohio

SHERWIN-WILLIAMS
SWP HOUSE PAINT

PAINTS · VARNISHES · LACQUERS · ENAMELS

Flavor that makes you hungry!

Kellogg's CORN FLAKES

SERVE strawberries with your breakfast bowl of Kellogg's Corn Flakes and enjoy a glorious treat!

Kellogg's are simply great these days—for lunch, dinner or breakfast. What zest their flavor and crispness adds to meals! Exceptionally easy to digest. Never tough-thick—but extra crisp.

Eat them with milk or cream—and add fresh or canned fruits or honey. Give them to the children at supper. Order Kellogg's at hotels, restaurants and cafeterias. On dining-cars. At all grocers. Always oven-fresh! Look for the red-and-green package.

Made in the Kellogg Kitchens at Battle Creek by the Kellogg Company — world's largest producers of ready-to-eat cereals. Makers also of Kellogg's ALL-BRAN, *Pep Bran Flakes, Krumbles, Kellogg's Shredded Whole Wheat Biscuit and Kaffee Hag Coffee. Other plants at Cleveland, Ohio; London, Canada; Sydney, Australia. Distributed in the United Kingdom by the Kellogg Company of Great Britain. Sold by Kellogg agencies throughout the world.*

Equalizing Food Costs

Continued from page 32

by this method assumes, first of all, that the homemaker can at least determine from previous expenditures how much she has been spending on certain items as for instance, meat or fruit. In other words she must have some simple account of her expenditures of a previous month.

If, for example, her meat bill for the previous month was $9 she would have a basis for beginning her averaging of meat costs for the next month. Granted that she had planned to the best of her ability and that she had kept within her budget in the month when the family consumed $9 worth of meat, her problem is to be sure that she does not increase this amount unintentionally. To avoid this she figures out how much such an amount would allow per day for meat. She finds this is about 30 cents. She then watches her plans from day to day to see that meat keeps within this figure. If she plans for chops one day which show a cost of 50 cents she must plan for some cheap cut of meat or maybe for a meat substitute the following day or soon after, to keep the cost averaged. In my own household we allow 35 cents per day for meat with 10 cents extra allowance for Sundays. This amount is expected to cover the occasional dinner guest tho not any large number of guests at a time.

IF I buy a leg of lamb as I did recently for $1.90, I make a mental calculation immediately that this particular cut will have to provide for five meals during the week, of which Sunday is one with its allowance of 45 cents. If it does not do this—and there is no guarantee that it will, for appetites vary—some dish which keeps well below the 35 cents allowed, as baked beans or macaroni and cheese must be substituted. In this particular case such a plan was not necessary for the honorable leg of lamb served out his term, providing us with the Sunday roast, a Monday night dinner with cold sliced meat, minced lamb in gravy surrounded by rice on Tuesday, with Wednesday night croquettes and a one-dish meal on Thursday consisting of noodles, lamb and tomatoes.

In the same way a butt end of ham purchased for $1.25 one day when a price a little below the usual was advertised, served as the meat basis for five meals, putting my meat cost to the point where I could serve a good juicy steak without any question of going beyond my budget. In the same way I let the use of the more expensive fruits and vegetables which lend variety depend on keeping the average cost of them to 40 cents per day. This is more, you will notice, than is allowed for meat—for a sound food budget we are told is planned that way. If, therefore, we have a generous dish of fresh peas one day we add to the few that are left the next day the old economy standby, the carrot, and have a dish of peas and carrots or if the peas did not hold out, carrots alone. After the same manner certain staple supplies are used so that the average cost of them varies little. For instance, for our family I plan on a definite quantity of butter and cream to be used each week. This quantity is determined by figuring out the amount which is needed.

In addition to keeping a mental account of such items as have been mentioned, good averaging of food cost involves having in mind, if not on paper, cheap and expensive dishes that fit the family needs. It means working out low cost and high cost meals that can be used as guides. It means planning the purchasing so that supplies are replaced and acquired without overloading one month.

To illustrate the way in which cheap and expensive dishes must be considered in the menu, every family has some very simple desserts that are enjoyed if not served continually and which keep dessert costs down. If the homemaker keeps in mind a group of these simple inexpensive desserts to sprinkle in with those more expensive she will keep dessert costs averaged without difficulty. For instance, in one household the home-maker tries to include each month a generous sprinkling of the following desserts: Apple sauce and cookies; coddled apples; gingerbread (using drippings for the fat); baked custard (in spring when eggs are cheap); floating island (made, when eggs are high, with part flour for thickening); maple cornstarch pudding; tapioca pudding; sliced bananas and oranges; raisins; half grape fruit; prune jelly; lemon jelly; custard gelatine; lemon milk sherbet with cookies (an inexpensive Sunday or company dessert).

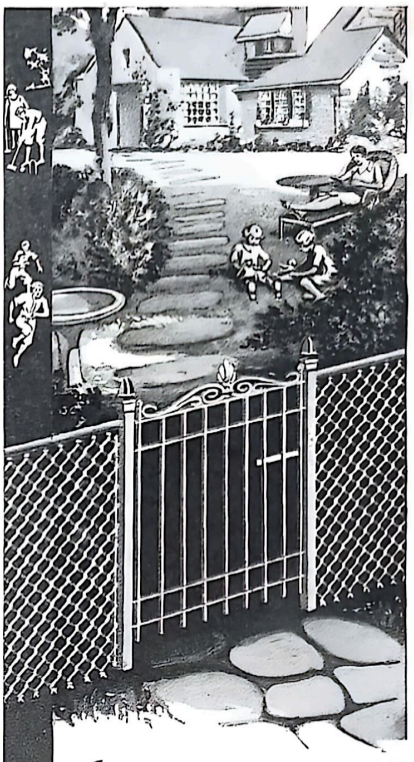
IN much the same way inexpensive salads must be grouped in mind so that they may be drawn upon, either to help even up additional expense of previous meals or to include in a meal tending to be expensive. Thus, plain lettuce salad can appear frequently to economic advantage and when a variation from this is desired which will still bespeak economy, shredded cabbage, mixed vegetables of the cheaper group such as carrots and beets with a suggestion of celery and mixed with French dressing furnish excellent types to accompany a meal that is running high in cost. On the other hand, some of the more expensive salads may well accompany meals where inexpensive main dishes are used.

Sometimes in order to keep costs averaged it becomes necessary to have accessible for suggestion whole meals that are inexpensive. For instance, the following two meals can be used occasionally to keep costs down in all directions.

Creamed chipped beef
Baked potatoes Buttered carrots
Stuffed prune salad
Gingerbread

Baked pork and beans Brown bread
Shredded cabbage and crushed pineapple salad
Floating island

Planning the purchasing so that it averages about the same month by month



An ASSURANCE of safety and privacy!

Ever-vigilant, an Anchor Fence spells safety for children. With an Anchor Fence "on guard," playing youngsters cannot heedlessly dart into the dangerous roadway.

Protection for lawn, shrubbery and flowers, too, is assured by an Anchor Fence. It also means privacy—freedom from intrusion.

Exceptionally attractive in appearance, an Anchor Fence harmonizes with the finest of properties. Its graceful square terminal posts and artistic *electrically-welded* wire or iron picket gates are exclusive Anchor features. Built with the strongest posts and gates made, and heavily galvanized, it gives everlasting service.

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Anchor Sales and Erecting Service is Nation-wide—local representatives in over 75 cities.

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Eastern Ave., and 35th St., Baltimore, Md.

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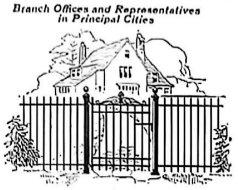

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PE-KO EDGE
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TRIPLE
Tested
Jar Rubbers
seal air-tight

Every "U.S." Pe-Ko Edge Jar Rubber has been tested for "stretch," "set" and "wear!" They stand up firmly under high temperatures and prolonged boiling in the steam pressure cooker or oven.

A gentle pull at the generous lip loosens the jar cover without difficulty.

If your dealer cannot supply you, we will send you a package of a dozen rubbers on receipt of ten cents together with your dealer's name and address. Approved by Good Housekeeping Institute. Developed and made only by the

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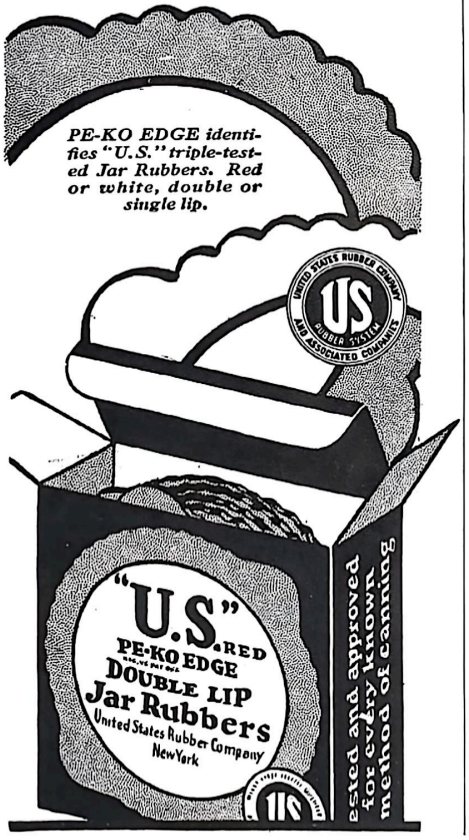

and yet have the buying done to advantage requires considerable thought. To purchase in very small quantities those items which are used up fast is very poor management, for the total cost of food is thereby increased. On the other hand, to purchase all of these same supplies in large quantities requires a considerable investment of money at one time until all supplies are at hand. To keep the cost of these staple supplies averaged means purchasing and replacing in quantity only a few items each week. In like fashion any variety that is added to the household stores, such as extracts, seasonings and canned goods must be purchased a few items at a time or the amount expended will mount up even tho actual cost of meals is not so high because of supplies on hand.

All of the plans suggested for keeping food costs averaged and also keeping fairly uniform quality in meals from week to week and month to month are those which can be carried out by the alert and observing homemaker without any complicated bookkeeping or calculation. Noting of prices and mental bookkeeping which can be carried on while dishes are being wiped or the house dusted constitutes the effort involved. Such plans as indicated here if followed, however, mean that when the final account is rendered on paper it will not be far from where the budget, that is, the plan for food money, placed it. This is a situation which means real satisfaction to the home-maker.

Bread and Butter Books

Continued from page 50

this book both informative and interesting.

Books on child-training are plentiful just now. As one young writer exclaimed in a recent magazine story, "You wouldn't think a child of eight months would have any psychology at all, but Tommy is simply full of it already!" I sometimes think our psychologists are making the job of a parent too complicated! Be that as it is, here is a group of books for parents that may—at least one of them may—fit your particular case.

Everyday Problems of the Everyday Child, by Douglas A. Thom, M. D. (Appleton $2.50).

The Problem Child by A. S. Neill, (McBride $2).

The Inner World of Childhood by Frances G. Wickes, (Appleton $3).

The Tired Child by Max Seham and Grete Seham, (J. B. Lippincott $2).

Your Nervous Child by Erwin Wexberg, (A. and C. Boni $1.75).

Fathers and Sons by Samuel S. Drury, (Doran $1.50).

Mothers and Daughters by Jessica G. Cosgrave, (Doran $1.50).

The Fun of Being a Mother by Kathleen Norris, (Doubleday 75c.).

The last-mentioned book is not a work on psychology, it is merely a simple, warm-hearted little essay which I have added because it comes as rather a relief after the other serious works. It is simply a plea for motherhood—that after all it offers more rewards than any other profession on earth.

I am not going to attempt to evaluate these books—every one of them is good

10 GALLONS RICH FERTILIZER
LIQUID 10¢

Test the richest plant food. Have better gardens, trees and lawns than ever before.

NITROPHOSKA
"A Little Goes A Long Way"

The most highly concentrated plant food. The new and better, scientific fertilizer, much richer than manure. Contains 15% Nitrogen, 30% Phosphoric Acid and 15% Potash, the foods plants most need.

After growth starts, apply

FLORANID (*Urea*)
"It's Nitrogen From The Air"

It contains 46% Nitrogen, the strongest obtainable. Plants most need nitrogen and constantly.

Both are clean, odorless, safe and pleasant to handle. Use on flowers, vegetables, fruits, hedges, vines, trees and lawns. Test them to see the marked results produced.

Send ten cents for sufficient of either that when added to water will make approximately ten gallons of liquid plant food—much richer than any other. Mix as wanted or use dry—liquid gives quickest results. Both for twenty cents. Say which is wanted if only one. One pound of each $1.00 postpaid. Both are obtainable in 1, 5, 10, 25 and 50 pound packing at reasonable prices.

Order direct if dealer cannot supply.

Booklet free. Gives valuable information on fertilizing.

Synthetic Nitrogen Products Corporation
Garden Department
285-C-Madison Avenue, New York

SAVE TIME SAVE STEPS

The HARDY
UTILI-T-CART
Serve-All

Hundreds of women use this famous household servant daily to set or clear the table; serve refreshments; as a sick bed table; as a breakfast table; in the nursery; for washing windows, etc.

Strong, durable. Finished in six beautiful colors. Mahogany, Walnut, French Gray, White, Apple Green, Ivory. Rubber tired wheels. Folds up when not in use. At your dealers or prepaid, only $9.95. (If ordered by mail be sure to specify color wanted.)

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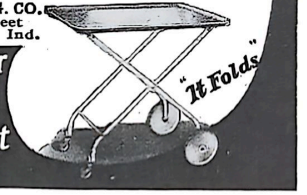

Campbell's Automatic
Electric Fireless Cooker Range

Works right off home lighting circuit. Does everything any good range will do and more. Low in price and operating cost. Oven heat turns on and off automatically. Wonderful for pies, cakes, roasts, etc. Large electric fireless cooker—also automatic. Big aluminum cooking top and splasher back. Beautiful Silver White enamel finish. Write quickly for easy payments.

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and you will like them as they are of help in solving your own particular problems. For my own part *Mothers and Daughters* (which of course I read at once, having adolescent daughters of my own) seemed a little tedious and hackneyed, but that is only a personal judgment and does not claim to be a final one. And I found *The Inner World of Childhood* and *Everyday Problems of the Everyday Child*" extremely readable.

There are two more "bread and butter books" that I want to mention here—both helpful if you happen to need them. One is *Financial Independence and How to Win It* by Harvey A. Blodgett (Appleton $1.50) and *Law For Wives and Daughters* by Henry Wynans Jessup, (Macmillan $2.50). The former is full of sensible advice, and while of course it cannot tell you how to earn money, it can be of great assistance in teaching you how to hang on to it—and also how to make it work for you. *Law for Wives and Daughters* is a book, simple and readable in style, which gives a full and clear explanation of a woman's status, rights, duties, liabilities, etc., according to the law.

And last of all I come to a delightful book both for parents and children, *Adventures in Reading* by May Lamberton Becker (Stokes $2). You may have met Mrs. Becker as the editor of *The Reader's Guide* in *The Saturday Review*; suffice it to say that long years of newspapering have not taken away the zest from her work or the sense of adventure from her reading. And she knows how to write for young people! Her book is dedicated "To My Daughter With Whose Reading I Never Interfered."

And that, my countrymen, is one of the most sensible dedications I have met in a long time. Her book tells youngsters about many good books that they will enjoy—tells them in an entertaining way, too—and never for a moment seems to force anything upon them. There are no "ought to reads" here, but there are plenty of "you will enjoys."

So much for this group of new "bread and butter books." May you find some of them helpful.

The Business of the Household

Continued from page 39

robe in advance so now I am working on a kasha ensemble. I was able to buy only the kasha cloth with my January money but hope to buy the rest of the needed material this month. Next month I shall try to buy the accessories needed to complete the costume.

Since we have launched this plan I have a delightful sense of independence, and my husband has admitted my fund is the most elastic thing he has ever seen. I never ask him to buy anything for the house unless I repay him at once. We are strictly businesslike in our methods, and we are both agreed that it is the finest plan we have ever used. Banished forever are little squabbles over money. It is really like playing a game, as each one tries sincerely to get as much out of his fund as the other. Best of all, my old feeling of independence is present again. I am once more a business woman, not as of yore, but a professional home-maker, drawing $100 a month.—Velma S. Geiger.

MISS ALICE BRADLEY, *Principal, Miss Farmer's School of Cookery; Cooking Editor, Woman's Home Companion.*

MISS SARAH FIELD SPLINT, *Editor, Department of Foods and Household Management, McCall's Magazine.*

Famous cooking experts recommend making

all your jams and jellies with Certo

"CERTO, it seems to me, is one of those modern aids to housekeeping which no woman should willingly do without," says Miss Sarah Field Splint, Editor, Department of Foods and Household Management, McCall's Magazine.

"To be able to make jams and jellies by boiling the fruit from ½ a minute to 2 minutes instead of the usual 20 to 25 minutes means a saving of the busy housewife's time and attention to say nothing of fuel. One of the advantages of jelly-making by the Certo method is that it is sure to turn out right. Even if you have never before in your life made a glass of jelly you cannot fail.

"Now there is no fruit or fruit juice that cannot be made into jam or jelly with Certo and they will be of a rich flavor and fine color when made by the Certo short boil method." . . .

* * *

MISS ALICE BRADLEY, Principal of Miss Farmer's School of Cookery, and Cooking Editor of Woman's Home Companion, says of Certo: "I strongly advise all housewives to make all their jams and jellies with Certo because:—***It's easier***—Takes only one minute's boiling. ***Tastes better***—No flavor boiled away. ***Better color***—not darkened by long boiling. ***No worry***—Never fails to set. ***It's economical***—Fifty per cent more from given amount of fruit and no waste from failures."

The secret of a perfect jam or jelly texture is to have a correct proportion of fruit or fruit juice, sugar, and that natural jellifying substance which Nature herself makes and stores in fruits in varying amounts. The common deficiency of this jellifying substance has been responsible for most of the jam and jelly making failures in the past. Some fruits are comparatively rich in it; others contain very little. Very few fruits have enough of it to jellify all the juice they contain, and all fruits lose it as they ripen.

We have extracted this natural jellifying substance from fruit, refined, concentrated, and bottled it. This is Certo. With Certo any kind of fruit will now jell perfectly every time. With only one minute's boiling! We have worked out in our testing kitchens accurate recipes for all kinds of jams and jellies—nearly one hundred in all. A booklet containing these recipes is under the label of each bottle of Certo.

Get Certo from your grocer today.

Free: **Nearly 100 recipes for jams, jellies and marmalades, and booklet beautifully illustrated in color showing new and interesting ways to serve them. Just mail the coupon. If you want trial half-bottle of Certo send 10c (stamps or coin)**

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(If you live in Canada, address: Certo, Cobourg, Ont.)

Please send me free recipes and booklet in color on jams, jellies and marmalades.

Name.....

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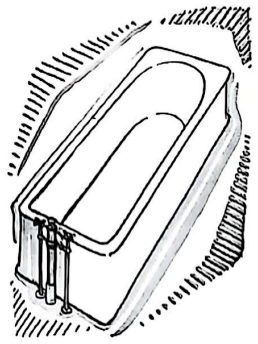
City.....*State*.....

☐ Check here and send 10c if you want trial half-bottle of Certo.



This is a
SPOTLESS TUB
and *nobody*
had to scrub it!

ONCE it would have been scrubbed after each bath. Why? Because there would have been a dirty ring around it.

What made the dirty ring? Soap combining with hard water made a scum. Dirt made the scum black.

Why isn't there any ring now? Because Melo is put in the water before each bath. Melo softens hard water. When you use Melo, no scum can form.

Hard water and soap make a scum in the washtubs too. Clothes are grimy white. Scum forms a greasy ring around the dishpan. Hard water makes hands red.

But put 2 tablespoons of Melo in the bathtub—no dirty ring. Put 1 in the washtub—snow-white clothes. A teaspoonful in the dishpan—no greasy water.

Melo saves ⅓ to ½ your soap. Keep it in the bathroom—the laundry—the kitchen. Get it at your grocer's.

The water in the United States is generally from 5 to 25 times too hard. Melo will make the water in your city as soft as rain water.

MEL'O
A REAL
WATER SOFTENER
Send 10c for a full-size package of Melo

THE HYGIENIC PRODUCTS CO.
Canton, Ohio
Manufacturers of Sani-Flush

Fit the Vase to the Flower

JANE EDITH WOLCOTT

HAVE you ever been at a loss to find just the vase of proper color for a lovely spray or bouquet of garden flowers? One is fortunate, indeed, who has a variety of beautiful pottery from which to choose. Many of us are not so well equipped, but one need not give up and jam the flowers into inartistic and inappropriate containers, for some lovely vases can be bought at low cost and others can be made at still lower cost. We have made dozens and not only supplied many of our own needs but those of our friends as well.

First we collected many shapes and sizes of bottles and vases. Commercial containers for foods are sometimes very good in line and form. We saved all that we could find that were desirable from an artistic point of view. We bought, at the ten-cent stores, several vases of very good form, costing from ten to twenty-five cents each. Even the exclusive house furnishings shops occasionally sell lovely bits of pottery for as low as a quarter.

A simple outlay will decorate all the vases, jugs and jars that your neighbors can assemble.

For the bronze vases, we use ordinary paint. A can each of black, white, red, yellow and blue will give any variety of color chosen. A package each of the powdered bronzes in blue, purple, green, fire and gold will be a fine supply.

By mixing red and yellow paint, you will obtain orange. Red and blue combined will produce purple. Yellow and blue will give green. By adding white, you may lighten the colors and by adding more blue, deepen and darken your green and violet.

First, collect and clean all containers. Cover the table with newspapers and then you are ready to paint. The necks of bottles and jars that have creases may be given an even surface by putting on layer after layer of a mixture of shellac and whiting mixed to a thick cream, using a brush to apply it. Let each application dry before adding another. Repeat until the neck is even and smooth. We removed the necks of some vinegar bottles with a glass cutter borrowed from our manual training instructor.

The first vase to try out will be painted all black. After letting it stand for a few minutes, blow blue bronze on the wet paint. Take just a bit of this bronze on a piece of glazed paper and holding it near the vase, blow gently; the blue bronze will settle in cloudy design on the surface painted. A bit of green bronze blown on the same vase gives a rich surface.

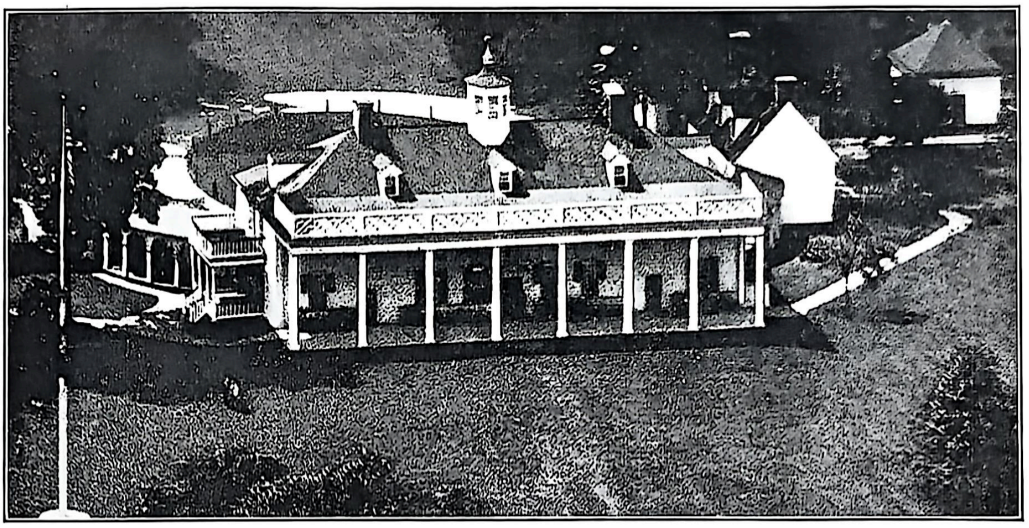
Fire, bronze and gold blown upon a container painted black makes a clever combination. A vase painted in green, and with green bronze blown upon it, is good. Mixed blue and green bronze are also good on the green vase. Another container painted a lovely shade of blue with the blue and green bronze blown upon it, makes a lovely bit of color.

ANOTHER variation of surface for the jar is to paint the surface a dull green, then after the surface is thoroly dried, apply a coat of liquid green bronze with a brush over the entire surface. The liquid green bronze is made by mixing the green powder with banana oil. This treatment gives a soft, even, glowing green surface that blends with all green leaves and flowers. Blue and violet bronzes used on self-colored backgrounds are very nice also.

Quick-drying enamels or lacquers make a lovely surface almost like beautiful pottery. There are many lovely colors that come in small cans, each containing enough to paint several containers.

There is a turquoise blue enamel that is an admirable color to use on a vase. You can shade the top a deeper tone by adding a bit of tube oil paint of darker blue. We painted one in *(Cont. on p. 80*

One who has a garden needs a variety of flower containers



On the George Washington House today are cypress shingles that are as old as the house itself.

"Nothing but durable materials shall be used in this house" G. Washington

EVER since it rose from the Virginia wilderness to its high station on the Potomac and its high place in the revering thoughts of men, the home of George Washington has been well protected by cypress shingles. Today the house at Mount Vernon retains shingles that were laid in 1743—shingles 185 years old.

The same durable lumber that George Washington esteemed is available for your home. For Tidewater Red Cypress can be secured from any lumber dealer, and at moderate cost.

Wherever wood meets moisture, use this Wood Eternal. Use it for shingles, sidings, cornices, windows, doors, porches, and every other point where rain and rot may do their damage.

When you build or alter, remember that Tidewater Red Cypress is the most economical lumber you can use. Its first cost is your last cost. Never does it make further demand on your checkbook. Surely you want your home to be one of enduring beauty. Surely you want to cut down upkeep. Surely you want to build with Tidewater Red Cypress.

A charming modern cypress home of the colonial type. Note the hand-made cypress shingles. This house, on the Cleveland H. Dodge estate at Riverdale, New York, was designed by Dwight James Baum.

When you order, specify "heart grade Tidewater Red Cypress" for exterior use, as only "coastal type" red cypress has these qualities of beauty and durability.

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GENTLEMEN:
"Money Saved for Builders" sounds like good news. Please send me the booklet.

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LUSTROUS, durable results from your paint brush depend upon the correct selection of the right finish for the particular surface.

With Sapolin you can be certain of a satisfactory job every time because you can get *exactly the right finish for every purpose*. Your Sapolin merchant will advise you intelligently whether lacquer or enamel will give the best results for whatever it is you want to decorate. His recommendation will be dependable and unprejudiced since Sapolin makes a complete line of both lacquers and enamels.

Sapolin Brushing Lacquer is easy to apply and gives gorgeous color effects. A few light strokes and it forms a hard, smooth, even film, within an hour.

All Sapolin Enamels endure the famous "glass test" for smoothness, covering qualities, ease of application, correct color, and for drying and non-sticking qualities. Sapolin Finishes dry so *hard* and smooth they feel *like glass*.

Write for our free textbooks of decoration, with illustrations in color and definite instructions for adding beauty to your home. SAPOLIN CO. INC., Dept. Q-4, 229 E. 42nd St., New York City.

SAPOLIN

a special finish...for each surface

ENAMELS
LACQUERS
STAINS
GILDINGS
POLISHES
WAXES

blended tones of turquoise blue, deeper blue and lavender shades, in enamel, that has been much admired.

THE flowers should be brighter than the vase or container. They are the important factor, but the vase should harmonize in color. Nasturtiums look lovely in a blue-green bowl. Iris are attractive in a gray-violet container. Calendulas look well in black and gold; delphinium are lovely in shaded blue and green. Cosmos are interesting in violet and green containers. Salvia is startling in dull green or two-toned green bronze, or in black with fire bronze.

You can carry out almost any attractive color scheme for a luncheon by making containers, flowers and nut cups harmonize in color.

Age is no barrier when it comes to making containers. I have seen vases beautiful in form and color, made by ten-year-old youngsters. While I was dabbling in this painting one morning, a dear old lady from next door came in and watched me work. She looked up wistfully and said, "I wish I were young enough to do such work." I promptly placed her in my chair, gave her a container and brush, and insisted that she proceed. Her eyes brightened, and tho she protested that she couldn't, she began nevertheless. She painted the container, blew on the bronze, and when she went home, carried two carefully balanced works of art, proud and delighted with her own excellent handiwork.

Try making a few of these vases. Your church or club bazaar or community festival may find them an easy sales proposition and a source of real profit. Then besides it is such pleasure for one who has a feeling for color harmony and the creative instinct to work out something useful and beautiful that will help to bring her garden into her home.

Why Our Flowers Did Not Grow

FOUR years ago when we first bought a home we thought it very peculiar that the former tenants, who had lived in the house for ten years, had not taken the time or trouble to plant the southern exposure of the house. There was not a shrub, a flower, or a plant growing where they should flourish. Even the sparse grass seemed weak and sickly. At first we could think of no other reason for this than neglect, for the soil seemed to be rich and the location ideal.

It was then spring, so we immediately bought a few shrubs and a lot of flower seeds. The plots were carefully drawn and planned on paper and then dug. Each shrub and seed was planted precisely as it should be and then given a great deal of care. They were given plenty of water, and cultivated frequently.

After an interval of several weeks there should have been some tiny green shoots to spur our hopes, but not a sprout. The shrubs, which we had selected with great care and planted as directed, either died or lived a lingering death. Not one of them grew that year. Not a single seed sent a sprout out of the ground. We now knew that perhaps the former owners had had a good reason for neglecting that side of the home.

When we saw that we were not going to grow flowers or shrubs on the south side

Modern Plumbing for Your Country Home or Camp

Out in the open, away from the noise and confusion of city life, you can enjoy the comforts, conveniences and health protection of a modern toilet and bath.

Install

San-Equip
SEPTIC TANKS

for safe sewage disposal for homes beyond the sewer lines. Follow U. S. Public Health Service designs. Absolutely dependable. Easily installed at a low cost.

Before You Order Any System

Send for free plan sheets and booklet "How to be Safe without Sewers."

CHEMICAL TOILET CORP.
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Makers also of San-Equip Self-Drain Waterless Toilets

Dainty Dressing Table

a delightfully useful addition to any girl's room. Comes unfinished so you can decorate and drape it according to your own color tastes and to fit the rest of your furnishings.

Height 30". Top 35½" long. Has a convenient cosmetic drawer 3" deep.

PRICE $4.00

Shipped taken apart direct from factory with necessary hardware and full directions for easy assembly, decorating and draping like illustration, $4.00 prepaid. Price does not include drapes, mirror nor appointments.

Send for descriptive circular of other pleasing pieces.

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401 Stevens Street
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DEALERS WANTED

Geneva WOOD CRAFT
FOR HOME DECORATION

Practical and Ornamental

The Iron Work on this handsome Mail Box is hand forged. The Box itself is Antiqued Cypress. 24 in. high, 12 in. wide. Sent anywhere in U. S. postpaid on receipt of $5.

DAYTON IRON CRAFT CO.
1015 E. Fifth Street
Dayton, Ohio

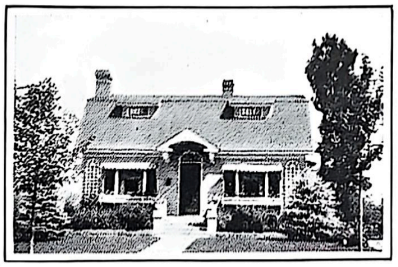
of the house that year we began to look for a reason why we should not. It was decided that the soil was probably too poor, so all that summer the lawn clippings were dumped there and spaded under. Some sheep manure was also added and worked into the soil which was turned at frequent intervals.

The second spring came around and this time we were sure we would have flowers. Again we carefully made the seed beds, planted the shrubs again, added a couple of small pine trees, and put a generous sowing of blue grass and white clover on the patch of grass. To our disgust the pine trees immediately died, but we laid that to inexperience in planting them. Again we waited for the sprouting of the seeds, but in vain. A few perennial plants and bulbs which we had planted did blossom, but the flowers were very stunted.

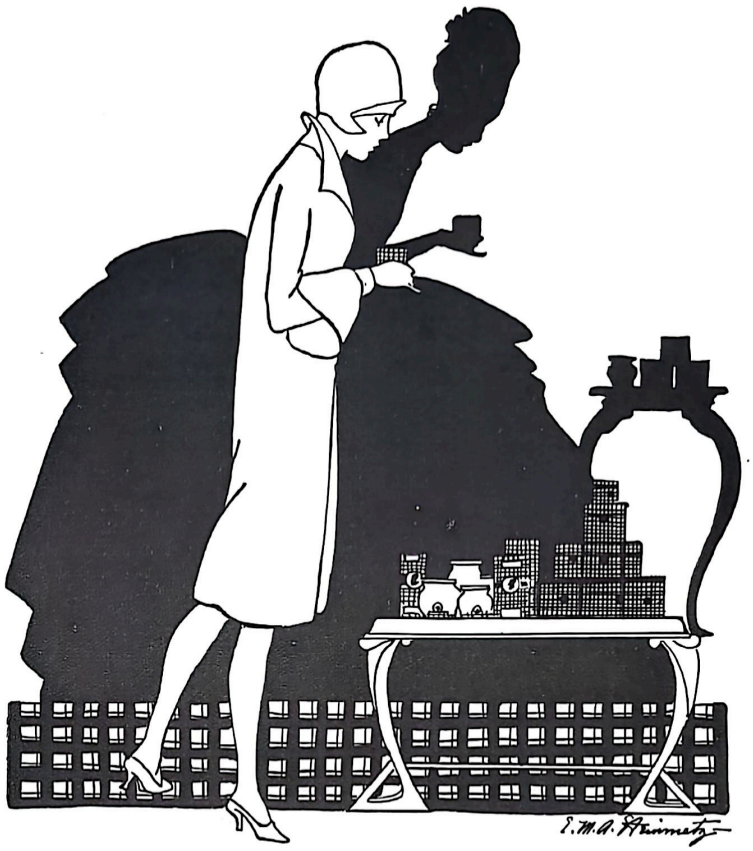
WE were now about to give up in despair, but the determination still persisted to make the south side of the house as beautiful as the rest. A sample of the soil was taken and sent to the nearby agricultural college. The report was soon sent back that the soil was all right and that there was no reason why it should not grow most anything. That heartened us considerably, but we now knew that we must look for some reason other than poor soil.

At the same time we had been kicking to the gas company because the pressure was low. Our neighbors had a very satisfactory pressure and so we could not see why we shouldn't also. The company sent their men several times to adjust the stove. At last I told them that I must have a larger pipe from the main. This they agreed to if I would pay for it. We came to an agreement that I would pay for the new pipe if there was nothing wrong with the old one. The diggers came and tore up our flower beds on the south side and eventually uncovered the pipe. Much to my satisfaction they found that the old pipe was full of pinpoint rust spots thru which there was a constant leakage of gas. The failure of the flower beds and the low gas pressure were immediately explained.

The gas company gladly paid for the new pipe and we quickly made plans for a real garden the coming spring. All that summer we kept the soil turned frequently as deep as it was possible to spade. At the same time new loam was added to the soil. The third spring we again made our garden ready and replanted it. This time we were rewarded with many beautiful flowers, but a number were not full sized. The many years of gas in the soil did a damage which will take several years to overcome, but in the end we will succeed. —Don C. Lyons, Jackson, Michigan.



The Geo. W. Beer home, Spokane, Washington



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IT IS the Armand belief that face powder, like fashions, should conform to the life of your times. In fifty years there has been only one definite improvement in face powder. It is embodied in Armand Cold Cream Powder, producing a marvelous texture which fulfils the need of today. It stays on for hours. It gives you a rose petal complexion.

Armand Cold Cream Powder is obtainable at all good stores at home and abroad. The price is $1. Armand, Des Moines. In Canada, Armand Ltd., St. Thomas, Ontario.

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1 trial package Armand Foundation Creme—a marvelous discovery for powder base and skin tone.

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Colorful Flower Boxes

How to Construct Seasonable Projects and Entertaining Toys

FRANK I. SOLAR

THIS is the time of year when the household mechanics are urged by other members of the family to build plant boxes. And it is well that they should offer this suggestion, because nothing except a coat of paint will add to the appearance of a home as do decorative blinds and plant boxes filled with bright colored flowers. The picture shows my shop windows up over the garage and I can assure you that the midas green blinds, plant box, and flag staff holder between the windows changed the appearance of this broad cream-colored garage front.

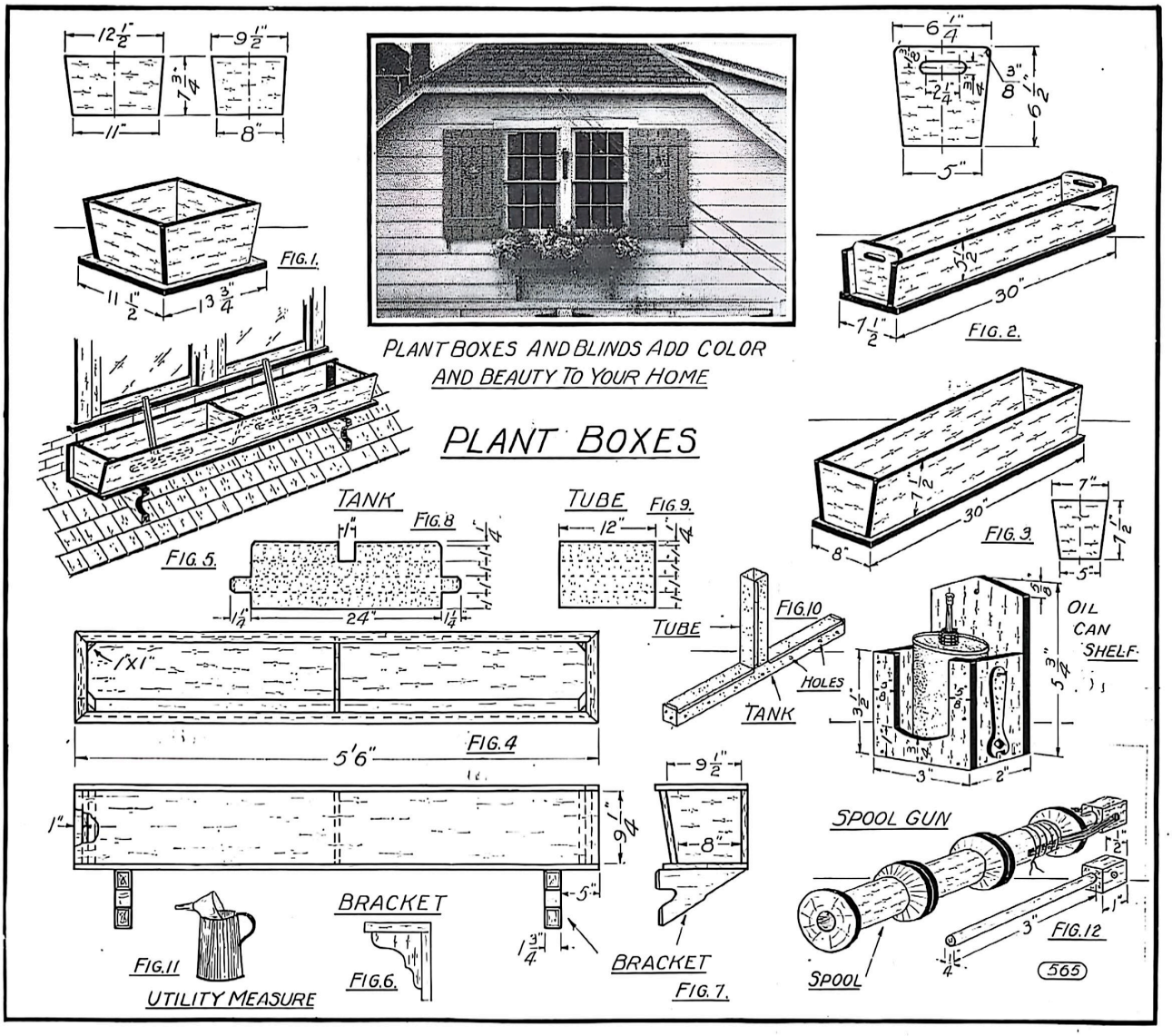
There are two other jobs outlined on this page, one for the boy who has had some experience with tools, and the other for the little fellow who wants to help Dad. While Dad is working at the bench the boys will also want to be busy and there is nothing so interesting for them as a real job of their own.

Any boy who can use a coping or jig saw can make the oil can shelf. The oil can shelf is to be hung on a nail near where the lawn mower is kept. And a cup hook screwed to one side will provide a place for the little lawn mower wrench so it can be found when needed. A few drops of oil supplied to each of the bearings before starting out with the mower will add to its life and ease of operation.

The spool gun is for the little fellow who would like to work with the others to make, and, boys, it is some shooter. I have about 1,000 rubber threads 1/8" wide and 30" long good for making this model and rubber band boats. They are used for propelling model airplanes and when not in use soon lose their elasticity. If you wish one of these bands send me a stamped self-addressed envelope.

Cypress and white pine are the woods best suited for plant boxes. The drawings at Fig. 1, Fig. 2, and Fig. 3 are for simple boxes to be used any place where a small box is desired.

The box at Fig. 1 can be placed on the corner of a terrace, or on a post of a projecting wall or fence corner. The construction of this box is simple, the most difficult part being to plane the proper bevel on the edges of side pieces so the box will fit well on the bottom. Use 8d finishing nails for assembling and reinforce the corners (*Continued on page 84*



It tucks in

—there is no other way to stop the loss of heat through cracks

Balsam-Wool is a blanket of fluffy wood fibre that looks and feels like sheep's wool and is its practical equivalent in insulating efficiency. Balsam-Wool is windproof, waterproof, fire-resistant, sanitary and durable.

There is one important decision every builder should make before selecting any insulating material for his house: *Will a rigid or flexible material be used?*

The rigid type includes the flat, stiff panels that are sawed like lumber and often used to replace wood sheathing. Flexible insulation, such as Balsam-Wool, is used only as insulation and is *added* to walls and roofs after building them in accordance with good construction principles.

Note the illustration. This workman is tucking Balsam-Wool into the cracks around a window casing. Every inch of the house can easily be made heat-tight by this method—another advantage of *flexible* insulation. Decide on this type of insulation and you will have a house that is cheaper to heat.

Balsam-Wool comes in rolls and in widths a few inches wider than the space between studdings and joists. *It tucks in tightly.* Use a *full inch* of Balsam-Wool throughout your house and you can practically save its cost in heating equipment plus 35% to 45% on fuel thereafter. Balsam-Wool comes both a *full inch* and half inch thick—the only blanket type of building insulation that does.

Investigate this subject thoroughly before you spend a cent. Mail the coupon now for a free sample of Balsam-Wool and our instructive booklet, "*House Comfort That Pays for Itself.*"

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Makers of both flexible and rigid insulation
Mills at Cloquet, Minnesota
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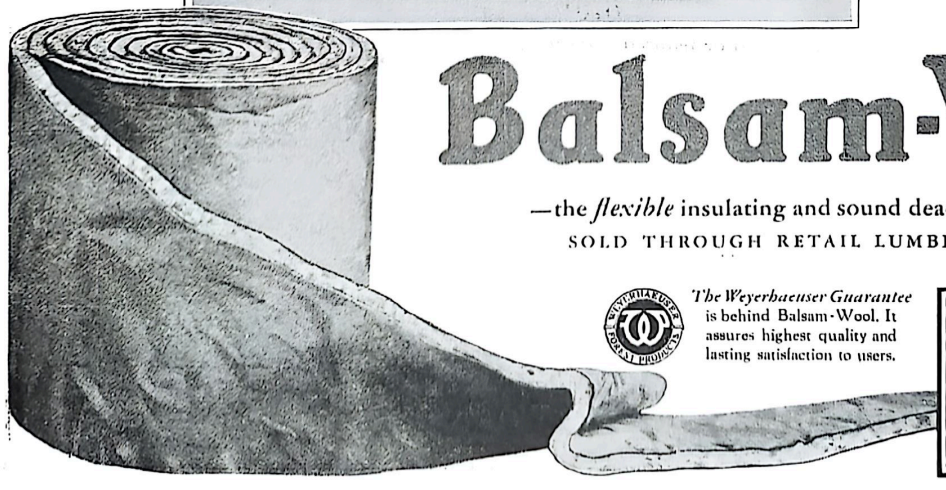

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The Weyerhaeuser Guarantee is behind Balsam-Wool. It assures highest quality and lasting satisfaction to users.

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Gentlemen: Please send free sample of Balsam-Wool and booklet "House Comfort that Pays for Itself." I expect to build a house ☐
I own an old house ☐

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with corner irons or strips of heavy tin or galvanized iron.

Boxes at Fig. 2 and Fig. 3 are of good size to set on brackets fastened to the wall under a window. The hand holds in the ends of the box at Fig. 2 add a little decoration to the box and are made by boring a series of holes in the end pieces. These boxes can also be reinforced at the corners with angle irons or strips of wood as shown in box at Fig. 4 and Fig. 5. Brackets made as at Fig. 6 are suitable for fastening to a wall as shown in the picture. These brackets can be made or purchased at any lumber yard. If the box is to be set on a roof as at Fig. 5, brackets as at Fig. 7 will be necessary.

At Fig. 4 is shown a dimensioned drawing of the front, top, and end view of the box at Fig. 5. This box is also shown in the picture and is suitable under the two center windows usually found in the front of a Colonial house. The parts of the box should be well fitted and assembled with 8d finishing nails and triangular corner pieces of wood nailed to ends and sides. A brace at the center well nailed to the front, back and bottom will prevent a box of this length from bulging. Strips as shown mitered at the corners at Fig. 4, but not at Fig. 5, add trim to the box.

To preserve the wood it is well to cover the box with one or two coats of boiled linseed oil before painting.

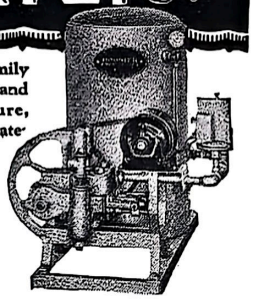
The question of watering a plant box is always quite a problem. At Fig. 8, is shown a pattern of a small tank and at Fig. 9, a tube, both to be made of galvanized iron of thin gauge so it can easily be bent around a stake. Cut the patterns from the metal suggested, punch holes and bend around a hardwood or iron stake a little less than 1″ square, on the dotted lines. After forming the parts solder together as at Fig. 10. Place in the box as shown at Fig. 5 before filling the box with dirt, so the box can be watered by raising the window and window screen and pouring water into the tube. A utility measure as shown at Fig. 11 with a piece of hose forced on the end of the funnel makes a convenient watering can, is easy to fill and carry about.

Blinds or shutters can be made of 4″ strips and 3″ cleats. The cutout is a woodpecker in an oval. The edges of the cutout are lined with black.

THE oil-can shelf is well dimensioned and can be made of ¼″ material or cigar-box lumber. The dimensions given will provide space for the average small oil can, and a cup hook fastened to one side will provide a place for the lawn mower wrench. Assemble the parts with glue and fine brads. The finished job can be shellaced or painted if desired.

FOR the spool gun three empty thread spools are needed. On a scrap piece of board nail a block, spread a thin coat of glue on both faces of the center spool and on one face of each of the end spools. Set in line against the block and nail another block to the board clamping the spools tightly together. Allow to remain in this clamp until the glue has thoroly dried. While this part of the gun is in the clamp, whittle out the plunger as at Fig. 12 and bore a hole in the head or handle for the rubber band. When the spools are glued together assemble the plunger in the spools as shown and fasten the rubber band to the end spool by binding with string. Ammunition for this gun may be dried peas, rice or popcorn. Draw the

your HOME deserves RUNNING WATER!



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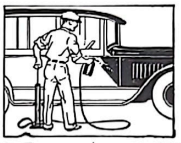

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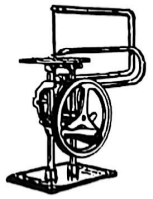
plunger back drop a kernel in the barrel, aim and let go the plunger and see the bullet fly. Make a target on a piece of paper and glue to the front of a cigar or shoe box. How often can you hit the bullseye at a distance of seven feet? What else can you make from empty spools?

Special Prize Offer For Making Something From Empty Spools



To the person sending me the cleverest project made from one or more spools I will give the little jig saw shown in the drawing. This saw can be operated by hand or motor power and will do real work. It is not a cheap toy.

For the next five cleverest ideas I will give two-pound boxes of chocolates. The man who originated the ice cream soda operates the company that will make this candy.

Have Dad and Mother help you think up an idea and send it in before the 10th of June. Send either the model, a sketch or a picture of your idea. What useful thing can you make of an empty spool or spools? Frank I. Solar, Better Homes and Gardens, Des Moines, Iowa.

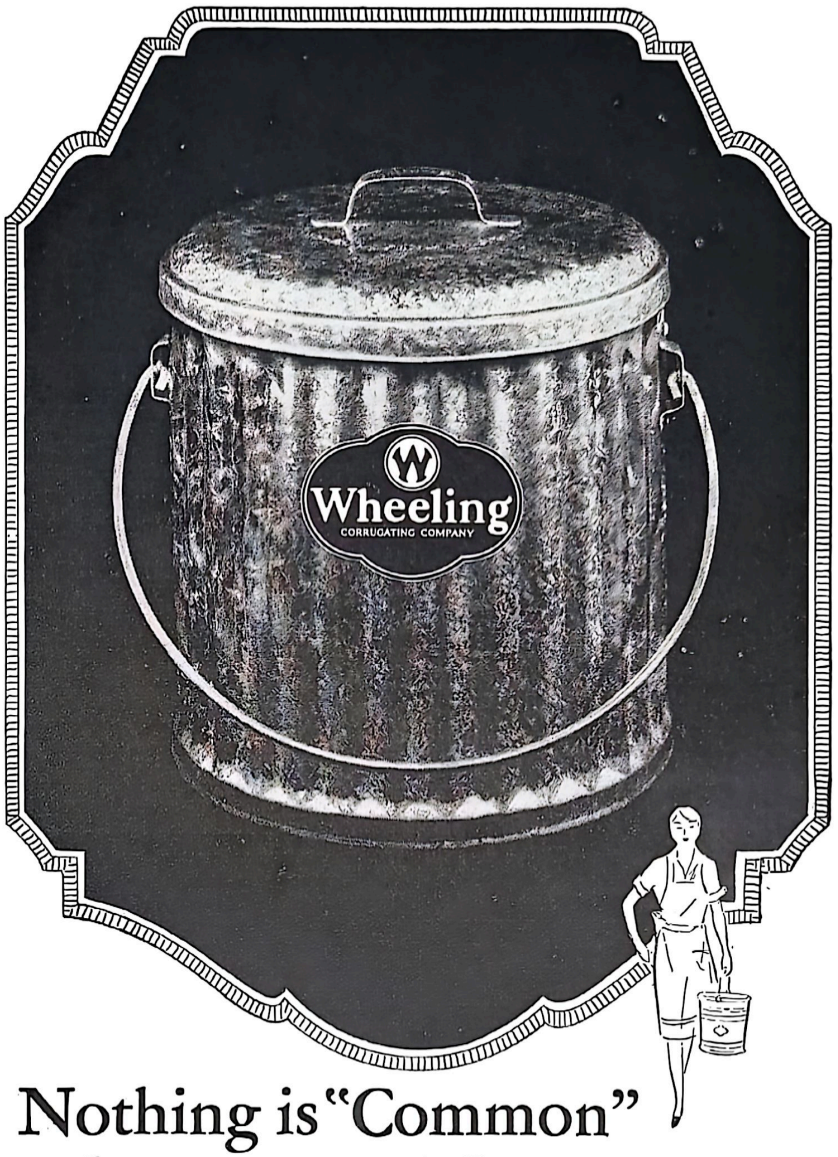
The Return of the Daffodil

SINCE the government quarantine prohibiting the importation of narcissus-type bulbs, daffodils have almost gone out of fashion. The growing of native bulbs, principally in the Pacific northwest, has now reached a point where daffodils are once more available in quantity and all signs point toward increased popularity for this exquisite plant.

Daffodils are highly deserving of popularity. Unusually hardy, thriving in sun or shade, moist or dry places, daffodils are ideal along borders, under trees or any vacant spot around the garden, even doing well in grassy places. Indeed, so readily does this showy species grow that we have seen it persist for years in abandoned gardens since the clumps multiply readily with practically no attention. Furthermore, the bulbs are suitable for winter forcing when treated in a similar manner to hyacinths and the beautiful blooms give a delightful touch of spring during drab winter days.

No more striking effect can be achieved along a walk or in borders generally than can be obtained with a planting of daffodils. We like them growing in masses that produce a brilliant, golden sea of blooms early in the season when a lively dash of color is a cheerful reminder that spring has at last arrived.

Daffodils were of ancient culture in England where three centuries ago the bright blossoms were known as daffy-down-dillies. Numerous varieties are on the market of which the double forms are among the most attractive. We hail the return of the daffodil to the American market with a great deal of pleasure and look for renewed popularity for this good old-fashioned flower.—Albert A. Hansen, Purdue Experiment Station.



Nothing is "Common" *When It Bears This Label*

The Wheeling Label is your guide to *extra* quality in the so-called "common things" . . . things which are made most *un*-common in value through the high standards of Wheeling manufacture!

A Garbage Pail, for example, is "just a garbage pail" . . . until you realize the difference between ordinary ones and the Wheeling Label product—the difference in far longer, better wear!

Hand-Dipping is the process of dipping the article by hand, inside and out, in pure, molten zinc. This process is largely responsible for the added wear and the lasting bright surface of Wheeling metalware.

The next time you need a Tub, Garbage Can, Pail —remember the Wheeling Label—and get the added value that goes with it. *Ask for it by name.*

Guaranteed *Hand Dipped* in pure Molten Zinc

Thirty-seven years' experience has emphasized the superiority of the Wheeling process of dipping each article separately by hand in pure molten zinc. While modern large scale production methods offer quicker and cheaper ways to perform this operation, the slower but more thorough hand-dipping process is carried on in Wheeling factories because it gives a heavier, longer-wearing zinc-coating inside and out

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The EASY WAY TO CHARM

is to give yourself every advantage in the *wearing* of your clothes. Merely buying new suits and gowns does not necessarily improve your appearance.

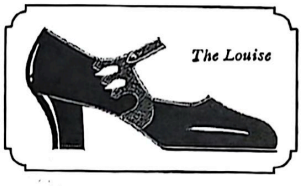
If you could have perfect poise, a light natural walk, and an ultra-smart figure — then your charm would be assured. And this is the result when you wear

THE ARCH PRESERVER SHOE

because this smart shoe does give poise; it does help attain a youthful walk; it does promote free, unhindered action of the entire body.

This shoe is different; it is patented; it can not be successfully imitated. This shoe alone offers you the correct arch bridge to prevent sagging, the flat inner sole to prevent pinching, and the metatarsal support to prevent distortion.

Insist on getting the one and only Arch Preserver Shoe and you'll be sure of perfect comfort and foot health — plus correct style — with the priceless "third factor" of smartness in your appearance.



Every woman who wants to improve her poise and general appearance should read the booklet offered below.

There is only one Arch Preserver Shoe. Its principles of construction are fully protected by patents. No shoe is an Arch Preserver Shoe unless stamped with the trade-mark.

ARCH PRESERVER SHOE "KEEPS THE FOOT WELL"

Made for women and misses by only The Selby Shoe Co., Portsmouth, O., for men and boys by only E. T. Wright & Co., Inc., Rockland, Mass. Smart styles for every occasion.

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881 Seventh St., Portsmouth, O.

Please send book No. B. H.-81, "Feet—the New Source of Youth and Smartness."

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The Evolution of an Old Hall Tree

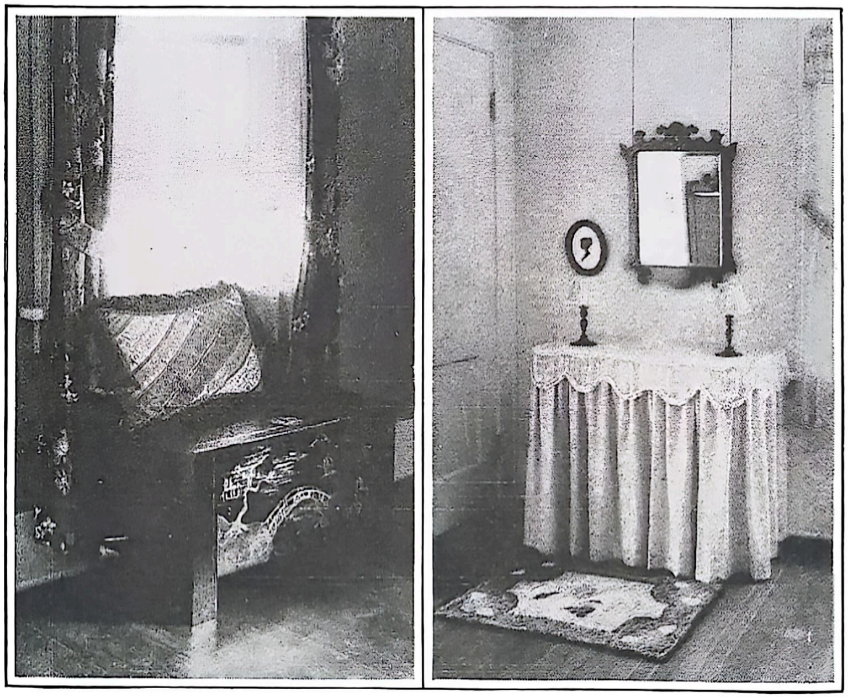
ELSIE D. SOPP

STRANGE tho it may sound, an ordinary sewing machine gave the impetus to transform an old fashioned hall tree into two useful articles for my home.

To begin with, my bedroom which possessed two good pieces of mahogany—a four poster bed and a high-boy—was sadly in need of either a bureau or dressing table. Funds did not just yet permit the purchase of the needed object of the desired quality. Thus the idea of using one of the draped dressing tables occurred to me, especially since they assume a more pleasing aspect in a Colonial bedroom than in any other, as they impart that quaintly old-fashioned air so satisfactory in a room of this type. But the only available wall space (my bedroom was the happy possessor of many windows) was, thru necessity, taken up by an ordinary drop head sewing machine of golden oak, which had always marred the results I had tried to attain. Since our modest cottage did not boast of a sewing room, however, our bedroom was about the only place in the house where I could place this homely tho most useful and indispensable piece of furniture. The solution was obvious—to make the sewing machine do duty as a dressing table.

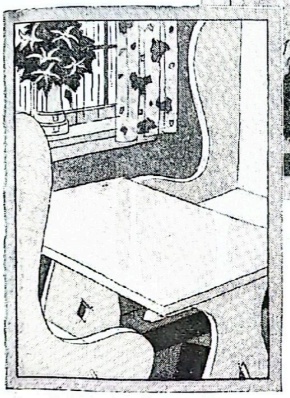
The first step was to enlist the aid of the man of the house who made a top of pine wood slightly longer and wider than the machine top, yet conforming to its curved front. This was made of light weight wood, well sanded and enameled Adam green to harmonize with the color scheme of the room which was green, yellow and mauve. Around this was hung a skirt of green glazed chintz; the top was covered with the same material and edged with a band of pale yellow marquisette (left from the curtains) cut in deep scallops finished with a narrow double ruffle of mauve voile. Some may think that this arrangement made the machine too unhandy to use, but not at all, as the wood was light and the whole could be lifted off as easily as a scarf. I was careful not to load the top with a clutter of miscellaneous articles. By wiring a pair of mahogany candle sticks and making shades for them the colors of the room were further carried out.

BUT here is where the old hall-tree entered the plan. Finding that good mirrors were really expensive, I made a trip to the second hand store. The one mirror of the (*Continued on page 125*

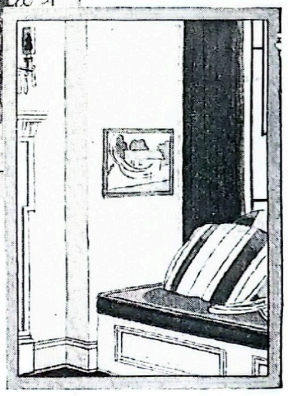


The Chinese chest at left and the Colonial mirror at right were evolved from an ugly old hall tree. Following two coats of black brushing lacquer outside and of vermilion lacquer inside, a Chinese scene was painted on the box in gold, then toned down with burnt umber and linseed oil. The mirror frame was cut out, then carved and stained a dull mahogany

A bright, sunny breakfast nook—there's a place to start the day! Interior trim of Pondosa Pine always stays snug and trim looking.



Excellent for all inside work, Pondosa is a particularly happy choice for built-in features, such as this cozy little window seat.



Let's begin with the front door!

THAT's surely a pleasant place from which to consider a house. Most people get their first impressions from the doorway. Much of the sentiment is gathered about it. So let's start at the front door.

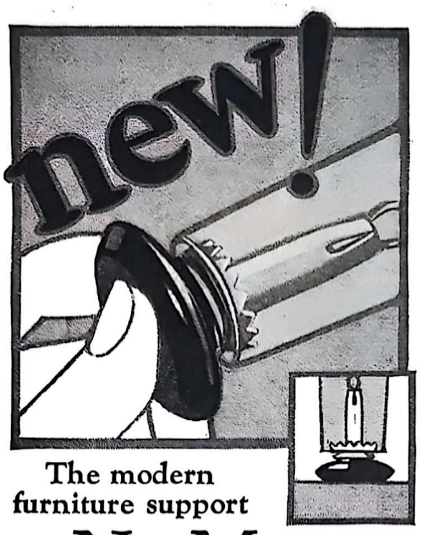
The way a door hangs—its snug fit, its lasting trueness—depends on the wood it is made of. Leading makers of sash, doors and window frames know this. That is why they use Pondosa Pine. That is why builders and experienced architects specify sash and doors of this good wood. For as the house ages and seasons—doors, windows, siding and trim made of Pondosa Pine will stay straight and true for many years to come.

Now let's go inside. What wood shall we use for the stairway? For the fireplace, paneling, balusters, kitchen cupboards and interior trim? Wherever a light, easily worked, soft wood is needed, use Pondosa. Pondosa finishes beautifully. The way it takes paint and light enamels will delight you.

Even though you don't actually purchase the lumber for your home, make sure that Pondosa Pine is freely used. Your personal interest will pay big dividends. Talk it over with your builder and architect. For further information, address Department 25, Western Pine Manufacturers Association, Portland, Oregon.

Pondosa Pine

The Pick o' the Pines



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Refinishing Varnished Woodwork and Furniture

JAMES WILSON

ANY person who has gone to the trouble and expense of fine woodwork and beautifully finished pieces of furniture in his home, should never be content to see this finish perish and remain shabby in appearance for any length of time without restoring the finish to its original luster and beauty.

True a fine finish will last for years if properly cared for, but there comes a time when age alone depreciates a finish. Then—well, then it can be brought back with so little cost and effort, and so quickly, that it is really and truly a shame to go along without enjoying the beauty of finish that can be yours again.

A varnished finish is probably the easiest to refinish of all high grade interior finishes.

One coat of varnish, if properly applied, is generally all that is necessary to restore a varnished finish to its original lustrous beauty, where the previous film of varnish is in reasonably good condition. One can tell approximately the effect that will be produced thru revarnishing by wetting a portion of the surface with water and observing it when brightened up with the water. Any whitish appearance, surface discoloration or shabby spots that are temporarily eliminated by the water will be permanently eliminated by the varnish. It should be remembered, however, that it is only surface faults that will be corrected—dents in the wood will still remain, and deposits on the surface must be removed by cleaning.

While varnishing is one of the simplest of home finishing operations, it is not so simple as it looks—or, more properly speaking, there are certain principles which must be followed in order to produce a really high class job.

The first essential in revarnishing is to clean the surface thoroly. Dirt should never be varnished under. This will not only spoil the looks of your job, but will prevent its ever being refinished satisfactorily unless the old finish is removed clear to the wood. A mild cleaning or wiping off of the surface will not suffice before varnishing, but the surface should be scrubbed vigorously with soap and water, in which a little sal soda or baking soda has been added. If there are any scratches or marred places where dirt has accumulated these should be given special attention; scrubbed out and sandpapered until every trace of discoloration is gone.

The next operation, always, is to sandpaper the surface. This cuts the gloss of the previous coating and also smooths off any irregularities and gives a perfect foundation for recoating. (Use No. 00 sandpaper.)

This preparation work done, we are ready to apply the varnish.

General Hints

Varnish should always be applied in a warm room, and the room should be kept warm until the varnish has dried.

The varnish itself should be warm. Otherwise it will be too thick and stiff to flow out easily and level itself to a smooth, glass-like surface. If cold, warm it by setting in hot water or on a radiator (but keep away from an open flame).

The room should be as free from dust as possible while varnishing, and until the varnish has dried dust-free.

If varnish has been standing in an open can for any length of time and has skinned over, or thickened at the bottom, or if any dust or dirt has got into it, it should be strained thru cheese cloth.

Use "interior finishing" varnish for woodwork or furniture—either gloss or flat as desired. Varnishes are of three general types: floor varnish, the chief characteristic of which is resistance to hard footwear; spar varnish, designed primarily to withstand outside exposure; and interior finishing varnish, made with a view to bringing out the natural beauty of the wood to the best advantage

Applying the Varnish

Varnish should be flowed on, not brushed out, as in applying paint. The brush should be held at an angle, instead of stiff and straight.

First apply the varnish, with the grain of the wood. On large surfaces, especially conspicuous ones where the finest job is desired, the surface should be "layered off" by brushing across the grain without refilling the brush. This carries the varnish over any places that may have been skipped in applying it, and evens out the varnish film. Next the surface should be "straightened out" by brushing with the grain again, using long strokes, as far as possible from one end of the surface to the other. On upright surfaces, the straightening-out strokes should be from bottom to top (never from top to bottom); and on horizontal surfaces, from left to right; pressing the brush firmly against the surface at the start and gradually decreasing the pressure as the brush nears the end of its travel.

Watch out continually for skipped places. By looking toward the light they will be plainly visible, and the first class varnish job is one that is entirely free from skipped or missed places.

Another thing to watch out for is "sags" or drips of varnish running down at the corners or in the form of "curtains" across upright surfaces. Where these are seen forming, they should at once be picked up or straightened out with the brush.

Special Notes

If the previous finish is entirely worn off to the bare wood, and the wood is of the open grain type, such as oak, walnut, chestnut and mahogany, a coating of paste wood filler should be applied before varnish, otherwise the varnish will sink into the wood. In applying paste filler it is thinned (*Continued on page 124*

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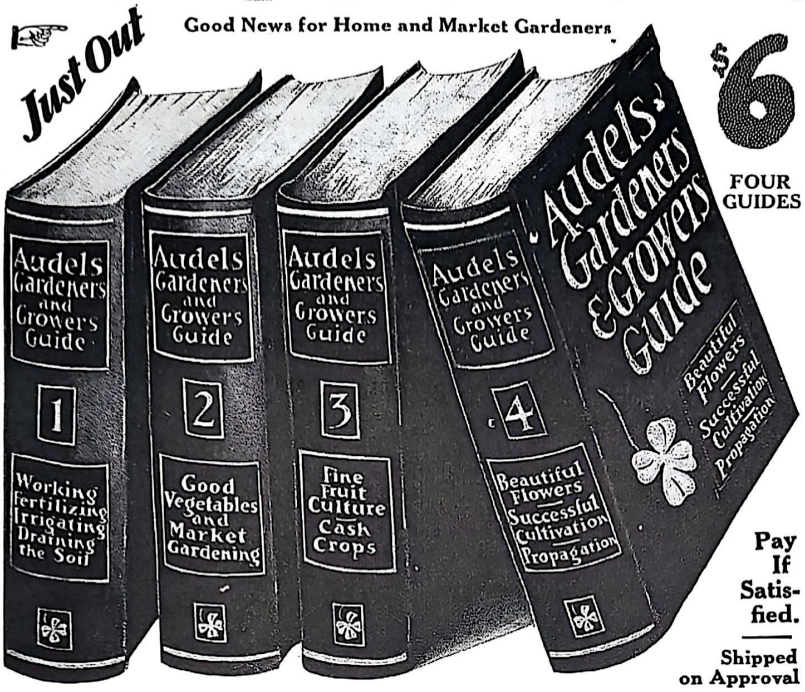

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First Lessons in Gardening

File These on Cards or in Your Notebook for Ready Reference

Building the Perennial Border

Outline the place the border is to occupy, marking it off with the garden hose or a line of plaster. An irregular boundary outline is ordinarily most effective.

Excavate to a depth of two feet.

Loosen up the soil in the bottom of the trench.

Put in clinkers, stones, or broken crockery at the bottom of the trench for drainage.

Next put in a layer of soil.

For the next layer, mix a part of the soil with manure, leaf mold, sand and bonemeal, and fill to within six inches from the top.

Tramp this down slightly.

Finally, add rich, sifted soil and set the plants.

Make a diagram of what plants you will use and where they will be set.

Arrange border so that low-growing plants will be at the front; highest ones at the rear.

Select plants suited to your soil and locality.

Rock Gardens

A rock garden rarely, if ever, belongs on a level lot. A gentle hillside slope is ideal.

Good drainage is necessary, but poor barren soil is satisfactory. Some of the rockery should be in full sun; a part of it in shade. Large trees however, rob the plants of moisture. Most rock plants prefer a northwest exposure.

Use no manure. Some of the plants will like lime, but an unlimed section is also necessary.

Pack the soil into all crevices while building the rockery. The water must drain toward the roots.

Do not attempt to lay a rock wall without studying into the question.

Catalogs will reveal plants and bulbs best suited to various conditions. Plan to have something blooming all thru the summer months.

Constructing the Lily Pool

Place the pool in full sun.

Excavate a bowl-like depression to a depth of 2½ feet leaving sides at a 45 degree angle.

Line the sides and bottom with heavy wide mesh fence wire, supporting it two inches from the ground.

Use a 1-2-3 mixture (one part cement, two parts sand, three parts gravel, tho these proportions may vary with quality of materials). Pour a three-inch layer of this concrete, covering sides and bottom and enclosing wire reinforcing.

Put on another three-inch coat immediately and smooth.

After a few hours, put on a quarter-inch coat consisting of one part sand and one part cement gauged with water. Trowel down.

Keep wet for three days.

Water may be put in on fourth day.

Drains may be installed if desired but for the small pool this is not necessary.

Edge the pool with stone, brick or curb while the cement is still soft.

See page 7 for additional information.

Foundation Plantings

If possible, have a landscape architect plan your foundation planting. If this cannot be done, consult your nurseryman. Studying the catalogs will help you in planning this work. Make your plan first. If shrubbery is purchased locally, the nursery will set it out for a reasonable sum. If the shrubbery is shipped in, trust to the judgment of the dealer as to time of planting.

Have ground ready to receive the shrubbery when it arrives. Look to the eaves and spouting to see that rains will not wash out the shrubs. If shrubbery is placed too close to the house, it will not receive sufficient moisture.

Since the soil around the house is likely to be clay, dig out to a depth of two feet or more and substitute loam.

When plants arrive, unwrap immediately and unless planted at that time, heel in the ground. Make the holes large so the roots will not be crowded.

Select shrubs to suit your soil, location, and section of the country.

Keep in mind the ultimate size of each shrub and do not set too closely together.

Pruning cannot be discussed in few words. Before pruning get advice from reliable sources.

Backyard Enclosures

The enclosed garden gives privacy. In selecting any boundary lines for the garden remember they are likely to be permanent, so choose with care.

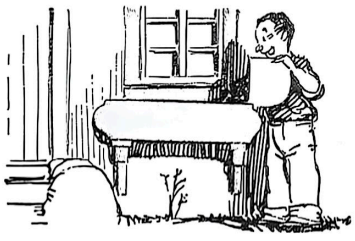
Brick or stone walls or iron fences are rather formal but enduring.

If a wire fence is used, be sure that it is attractive. There are several on the market which are really beautiful.

If picket or lattice fences are used, they must be of very simple design, well built, and covered with vines, plants and shrubs, so that little of the glaring fence is evident.

If a hedge is used to enclose the garden, it should not be permitted to grow so high as to obstruct the view and should be fairly compact. The same is true of shrubbery used in this way.

The garden is a living room with a blue sky ceiling and green grass carpet. Walls of living green with accents of flowers are always lovely.



Window Box Suggestions

Get your window and porch boxes ready early in spring but do not set out the plants until all danger of frost is over.

Cypress is a good wood to use for window boxes.

Boxes should be at least six inches deep and eight to twelve inches wide.

Bore several holes in the bottom of the box for drainage, covering with stones or pieces of crockery before filling with dirt.

A good soil is three parts garden loam, one part leaf mold, one part sand and one part rotted manure. If good dirt cannot be obtained, add commercial fertilizer.

Select plants suitable to the location; some varieties like sun while others prefer shade. The dealer from whom you purchase the plants can advise what to buy. If plants are to be grown from seed, plant them indoors to get an early start.

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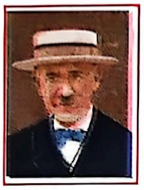
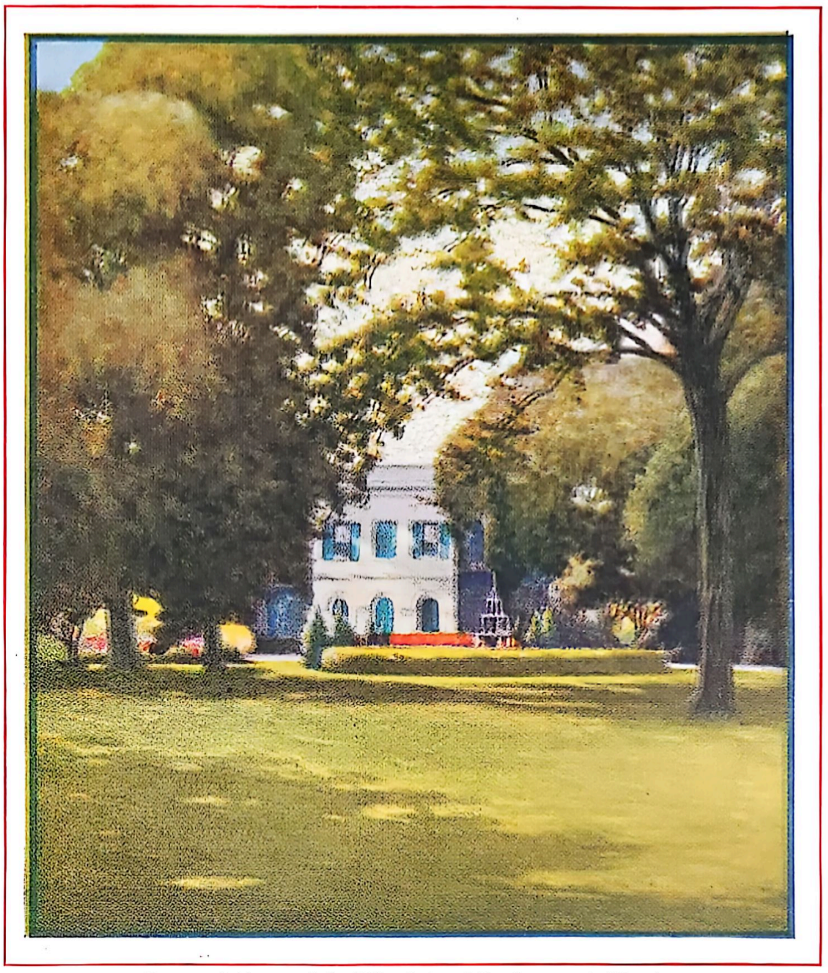


S. J. Ashby, Gardener of the Capitol Grounds, recommends his practical plan to readers of Better Homes and Gardens



From painting made by Miles Sater at the Governor's Mansion, Columbia, South Carolina

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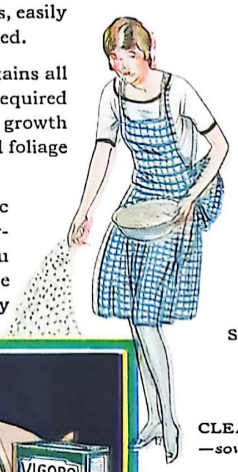

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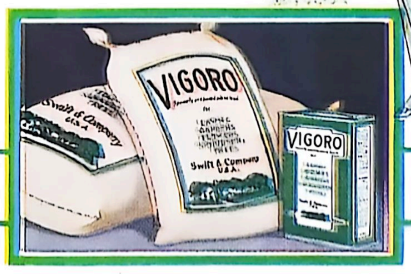

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An Ugly Cottage Becomes A Charming Home

Continued from page 13

conditions, the following winter the cottage was enlarged by enclosing the front porch. The sun shining in all day long warmed the porch so perceptibly that it made an ideal spot for the children's play corner. This enclosure was also a good insulator in stormy weather. When the winds whistled around the house, the living room remained cozy and warm and the cold air could not enter the room each time the front door was opened.

Originally the bathroom occupied part of the first floor. In a stove heated building it is advisable to place the plumbing pipes in proximity and also to make provision to heat easily any room containing plumbing fixtures. This explains the position of the bathroom, but with a furnace such a consideration was no longer necessary, and consequently during the third alteration the bathroom moved upstairs, its logical location. The new position of this room was directly above the old one. Such a move is the least expensive. It was necessary only to extend the water pipes to the upper floor and to make new sewer connections with the soil pipes which already passed thru the walls to the roof. Part of the old bathroom became a breakfast nook with built-in table and seats. This arrangement provided an ideal place to serve lunch when only part of the family partook of this meal at home. The other end of the former bathroom became a passageway containing cupboards for brooms and other necessary articles and from here access to the basement stairway was secured.

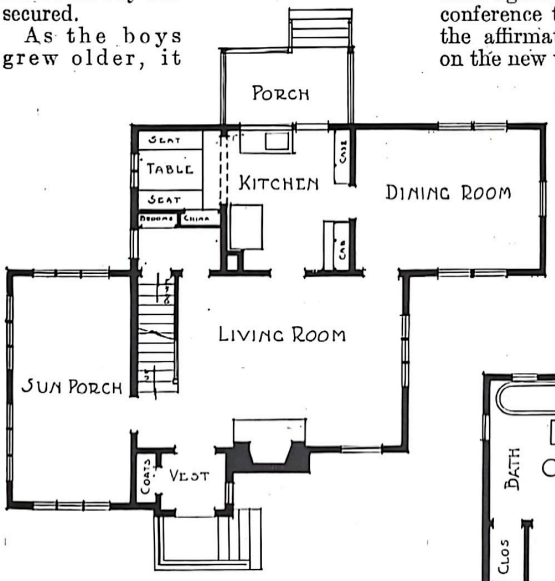
As the boys grew older, it seemed impractical to entertain their friends in the combined living and dining room. Therefore alteration number four consisted of adding a new dining room with a bedroom above. This new dining room, off the kitchen, occupied part of the old pantry and work corner, while the balance of the room was built in the new wing. Doors from the living room and kitchen made the room easily accessible. The groceries and utensils formerly placed in the pantry were arranged in cupboards along the kitchen wall and the refrigerator found a place in connection with one of these cupboards.

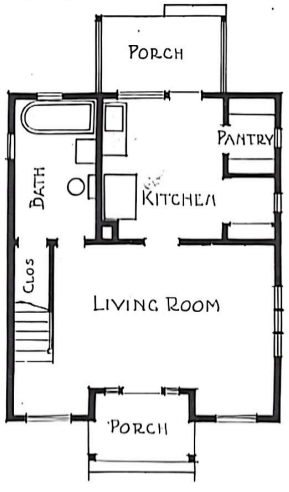
On the second floor the three roomy bedrooms avoided the old cramped conditions. It would have been better if all rooms opened from the hall, but this could be possible only by encroaching upon the size of the other rooms.

AS the children were all boys they concluded to sleep in the new bedroom and use the other for a dressing room. Therefore the disadvantage of passing thru one room to enter another proved to be an asset as the dressing room remained warm if the windows were open only in the bedroom.

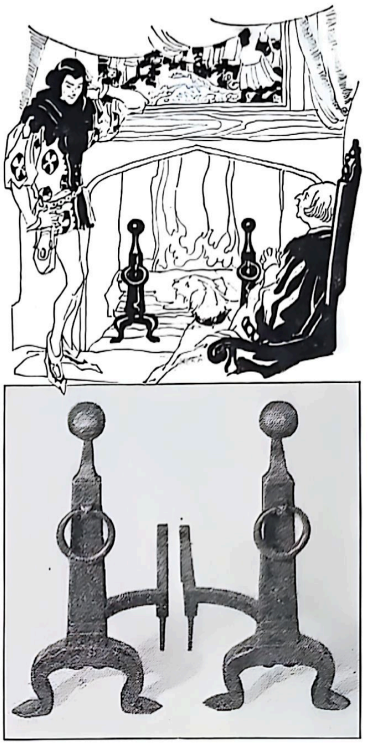
"The next time we enlarge our house we'll build an entire new one," said the owner of the house but he did not live up to this resolution. The suburb in which the house stood had grown in proportion to the cottage, not only in size but also in prominence, and the street was now one of the most aristocratic in the suburb. Gradually one neighboring house after another was constructed which was a pride to the community and the diminutive cottage looked commonplace beside its pretentious neighbors and no longer held its place.

"What shall we do? Start alterations again or not?" After a long family conference the argument was decided in the affirmative and plans were started on the new work. This time the primary





Below is the first floor of the old house. At left the same floor after remodeling



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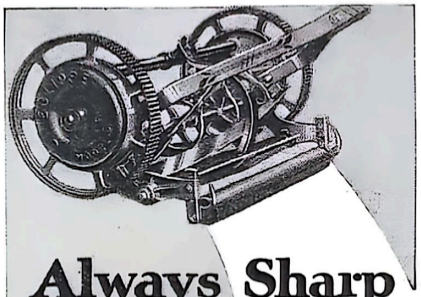
idea was to plan not simply for practical purposes, but for the esthetic side as well, and the architect succeeded in carrying out this purpose. It was unanimously decided that no house is complete without a fireplace. Accordingly a fireplace was planned, but not in one corner of the house to be seen only by a few, or nestling between two walls, as tho it were ashamed of itself. No! It was given the most prominent place, directly on the street side, with its broad side to the public. The large chimney with its lining projecting at the top gave a distinctiveness to the whole, a feeling of repose and dignity seldom seen on a small house. As a single flue chimney would have looked too narrow and high, its upper section was built wider than necessary and the additional space served as a vent for the second floor and attic. This vent produced a cooler attic in summer and helped the circulation of heat on the second floor in winter. Removing the jog in the living room and building the front interior wall in a straight line not only enlarged this room but seemed to change it entirely. It no longer appeared as being divided in two. The attractive colonial mantel painted white contrasted well with the red brick facing around the fireplace opening. Building the chimney in front necessitated discarding the old sun porch. This room had gradually outgrown its usefulness, as you could hardly expect a six-foot boy to feel at home on a six-foot porch.

THE new porch extends along the side of the house and its generous dimensions make it a delightful room. Its casement windows on three sides give a breadth of view and delightful ventilation seldom found in homes of similar size. The main lines of the roof adjoin those of the old building and eliminate all thoughts of an addition. The porch interior is finished in rough textured plaster with quaint hangings on the windows, giving a charm consistent with the general design of the house. On a line with the lower part of the porch roof and extending along the front up to the chimney wall a new roof houses the entrance vestibule. Could you wish for a more inviting entrance than this one with its arched transom and a gabled roof? The ample inside closet space makes convenience equal to the charm of the exterior. The wrought iron railing at the front entrance provides a protection and at the same time avoids the stilted appearance which a high brick rail would give and prevents the house from appearing to stand too high above its surroundings.

A winding flagstone walk from the house to the sidewalk is an invitation to all passers-by to come and partake of the home's hospitality and to show how it has progressed from an unpretentious cottage to a suburban home, a pride to the community.

The many growing shrubs and flowers banking the foundation in front show the loving care the owner has taken, not only of the house which he hated to discard (it having been the witness of so many joys and sorrows) but also of the shrubs which he started from tiny twigs and which have grown to such large proportions.



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The Common Sense of Diet

Continued from page 40

discuss later. From the breast milk period on, we must plan our diet with a view to including all the elements, for every one is essential. Most important is protein, the element of growth. From it comes all tissue repair and all new tissue. Children, whose chief business it is to grow, need more protein in proportion than adults. While nearly every food contains some protein, a number, such as vegetables and fruits, have only a negligible quantity and we must look to milk, eggs, meat, cheese and a few of the legumes, notably peas and dry beans. One of the new dietetic tendencies is to feed more protein to small children, especially in meats and eggs.

Carbohydrate supplies energy, among other important functions. The chief sources are the cereal grains, fruits, vegetables and milk. A child's store of carbohydrate is small and used rapidly; hence the intervals between meals should not be too long. If there must be a long space between meals, a light lunch, such as crackers and milk should be given—but not unless meals are more than four hours apart.

Fat is another energy food. But if too much of it is given, it delays digestion, interferes with appetite and may cause gastric upsets. That is why gravy, the kind made from grease and flour, should not be fed to children under 2 years of age. The fats best assimilated are contained in milk, butter and eggs.

Mineral salts are essential to life and health. Milk contains many of them in abundance. More iron is needed, however, than milk provides, and this is furnished by eggs, meat, liver, spinach and other green vegetables. In the regions where there is an insufficiency of iodine, the lack may be supplied by salmon and cod and by brands of table salt containing iodine.

Usually lime-forming minerals are needed in addition to those in milk. These are furnished by fruits and vegetables.

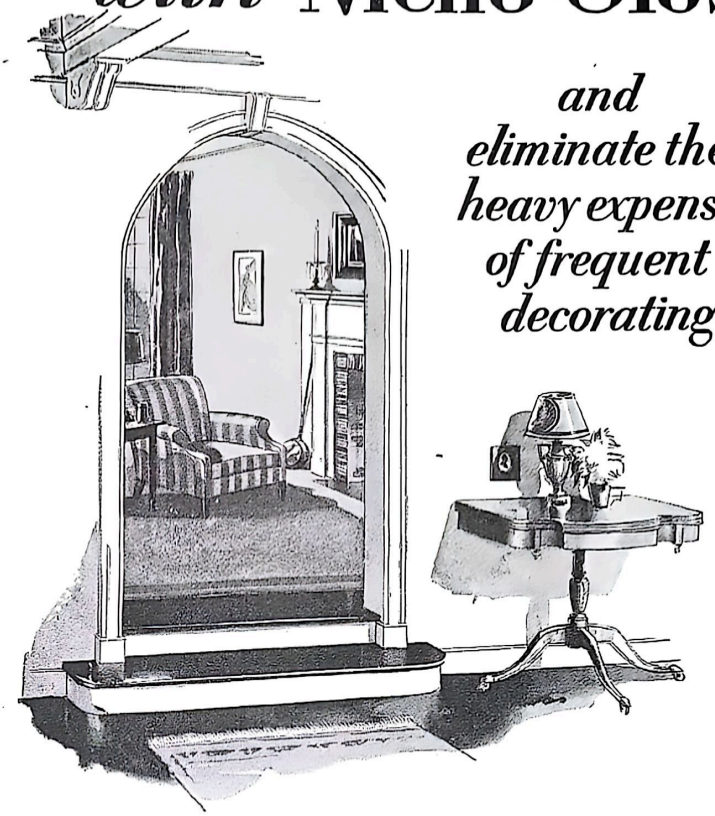
AND now we come to the vitamins, those mysterious but potent factors whose nature is not yet clearly understood but which are essential to health. Vitamin A, it has been found, gives strength to muscles, aids growth, builds resistance and prevents certain eye diseases. Its chief sources are milk, butter, egg yolk, codliver oil and liver. (The last named, by the way, has been taking a very prominent part lately in dietetic discussions.)

Vitamin B builds appetite, prevents constipation, helps growth, prevents the deficiency disease beri-beri. It is found in whole cereal foods which contain the germ cells that are the growing parts of the seeds. (Polished rice, bolted flour and many corn meals have this germ all removed.) Milk, fruits and leafy vegetables, such as spinach and cabbage also contain considerable B.

Vitamin C is a disease preventive, especially potent against scurvy. Citrus fruits such as oranges, lemons and limes, tomato juice, spinach and cabbage contain it in abundance.

Vitamin D makes strong bones and teeth and prevents rickets. Codliver oil is a gold mine of Vitamin D. Rich

For beautiful walls and ceilings *decorate with* Mello-Gloss



and eliminate the heavy expense of frequent decorating

HERE is a paint that fairly transforms your rooms! Lowe Brothers Mello-Gloss. It makes your walls and ceilings *a part* of your decorative scheme. It makes them more complementary to your drapes and hangings. More effective as a background for your furniture.

And this paint is so remarkably serviceable and lasting. Walls and ceilings that are finished with Mello-Gloss can be *kept* clean merely by using soap and water or Lowe Brothers Cleaner. They can be cleaned five or six times, and each time look like new. This means that by finishing with Mello-Gloss, your first cost constitutes your entire decorating expense for years.

Before you choose your decorating materials, see the Lowe Brothers Dealer. Let him tell you about Mello-Gloss, which has slight luster; or about Mellotone if you prefer a *flat* finish, one without luster.

Be sure to get a copy of "The Art of Color in the Home." This unusual booklet contains valuable information and expert advice on home decoration. It is profusely illustrated in color and can be obtained free from any Lowe Brothers dealer or mailed from Dayton direct to your home for 10c in stamps

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Between luncheon hours you can transform your basement from a damp, gloomy hole in the ground into a clean, inviting, dry addition to the rooms above ground.

All you need is the correct amount of Medusa Portland Cement Paint, a good Dutch brush and a hose to wet the walls down with.

Small sample and literature sent free. A large working sample will be sent you for one dollar.

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in it also are egg yolk, butter and milk. And the greatest of all sources is sunlight.

A daily diet containing a quart of milk, an egg and a serving of leafy vegetable will furnish an adequate amount of A. Two succulent (non-starchy) vegetables, two fruits and three servings of a whole grain cereal daily will give enough B. One raw fruit, such as an orange, a day will give sufficient C while D is supplied by the same schedule as A, except that the codliver oil should be stressed to make sure of enough D. In seasons when the child is deprived of sunshine, eggs, liver and codliver oil should be fed. Nor may the sovereign effects of sunshine itself be forgotten. I know several mothers who cured their children of rickets by letting them go thru the summer without clothing, retreating to farms and camps for the purpose. Much the same result, however, can be obtained in winter by the use of codliver oil and the other foods mentioned.

So now we can understand better why we feed children as we do and why so much emphasis is placed by dietetians on the balanced diet, when we see what is likely to happen if any one of the food elements is neglected.

That is why for the tiny child breast milk is the ideal food since it contains everything needed by the tiny child. That is why, if mother's milk cannot be had, we modify cow's milk to resemble as closely as possible mother's milk.

Cereals are begun at 6 months to teach a new method of eating and to increase the caloric intake. Vegetables are fed also, especially spinach, to supply iron, since the baby's birth store is now exhausted. At 6 months, too, egg yolk is given for protein, vitamins and minerals. At 8 months soups, broths and fruit sauces to supply protein and vitamins and to accustom the child to the new diet on which he will have to subsist when he is weaned at 9 months.

And now to appease the appetite of the mother who always wants to know the latest—and it's a mighty good trait, too, provided in following it we don't neglect the important old things—there is glad news. Did it seem to you a few years ago that correct diet for children consisted in making them eat the things they didn't like and in withholding the things they craved? That is much changed.

The greater amount of eggs and meat given, for instance—you know how children love both. Raw vegetables, especially carrots are being fed children over 18 months of age, and raw fruits such as apples, bananas, etc., provided they are ripe and carefully selected.

ONE of the most interesting things that have happened is the experiment conducted by Dr. Clara Davis at Mt. Sinai hospital in Cleveland. Before a 9-months-old baby, breast fed, who had never seen any other person eat, she placed trays containing a great variety of foods and allowed him to choose for himself. The baby at his first meal vindicated her confidence in his good judgment by sticking his fist into a dish of raw carrots and eating most of it before he passed on to raw beef and milk. At the end of 10 months he was eating voluntarily and with relish a remarkably balanced diet. After 14 months of this way of eating he had cured himself of an active case of rickets and was by every test an excellently nourished infant. (Dr.

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No soiled hands and clothing as hose is permanently attached to reel and requires no handling. Reel revolves on faucet and can be attached and detached instantly

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Davis' account of this experiment was published in the American Dental Journal for June, 1927, page 1119.)

What effect this baby's acumen will have on the dietetics of the next few years it is impossible to say. Perhaps by the time the next consignment of babies arrives, the cafeteria plan will be in operation in every home. But in the meantime, let us stick to our common sense rule and serve a well balanced menu seven days of the week. Just because protein now is being talked about, let's not forget that vitamins, carbohydrate, mineral salts and fat are still essential.

The whole thing has been made very simple for us by the experts. From various sources may be obtained menus, carefully worked out with regard to including proper amounts of all the elements. A number of state health departments issue them, a number of state universities have such a service. The American Child Health association has such menus. We have only to follow these to know that our children are getting the food they need.

And finally, the old familiar word of caution—the best way to be sure your child's diet is fitted to his individual needs is to take him regularly to the doctor.

Editor's Note—For further reading on the subject of diet for children and infants, we recommend any of the following:

"The Care and Feeding of Children," by Dr. Holt (as revised by his son). Appleton and Co., New York.

"The Feeding, Diet and General Care of Children," by Dr. Albert Bell. F. A. Davis Co., 1914 Cherry St., Philadelphia.

"Baby's First Two Years," by Dr. Richard Smith. Houghton Mifflin Co., New York.

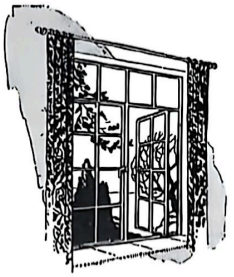
"The Baby," and "The Child From Two to Six," pamphlets published by the American Child Health association, 370 Seventh Ave., New York.

Remedies for Sick Plants

Continued from page 27

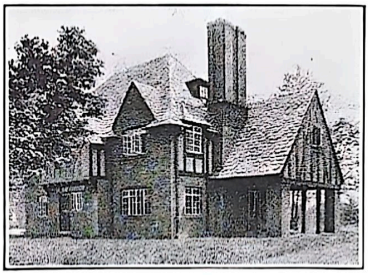
of water and applied at the rate of one gallon per square foot. After this application the soil should be covered with a tarpaulin or with straw, and the gas allowed to act for at least twenty-four hours. Nothing should be planted until the soil has been loosened and aired for a week or ten days. In the case of steam the beds may be planted when the soil has cooled.

Having a clean plant bed makes the control of some of the most serious vegetable diseases much easier. Certain additional precautions must be observed, however. If tomato wilt occurs in the garden do not use the infested part for tomatoes for at least five years. Thoro spraying of both the upper and lower surfaces of the leaves and of the stems with 3-6-50 bordeaux is essential to prevent infections with either late blight or early blight. Cabbage seed should be soaked for thirty minutes in a solution made of one part of corrosive sublimate in one thousand parts of water, followed by a ten-minute washing in order to kill the black leg and black rot diseases that may be on the seed. If the garden is infested with the yellows disease, the only practical solution is to use the yellows resistant varieties: Wisconsin Holland, Wisconsin All-Seasons, Wisconsin Succession, and the Indiana cabbage.

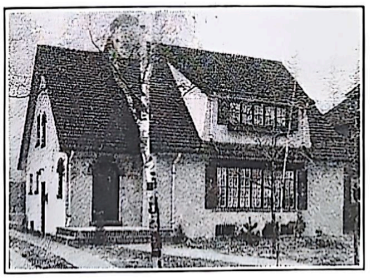


See how *easily* you can afford these stylish modern CASEMENTS *of* STEEL

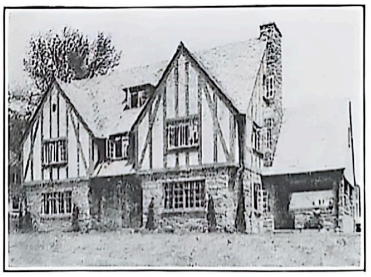
YOU MAY have imagined that Lupton steel windows were too expensive for the home you plan to build, but such is not the case. For instance, the total cost of all the Lupton Casements in the house at the left was only $355. This is indeed a low price to pay for the assured weather-tightness and modern style of Lupton copper-steel casements.



These outswinging windows open so easily and lend themselves so well to any ventilating requirement that they are an inducement to keep the house always fresh and well-aired. The occupants of this pleasant suburban house, shown opposite, can enjoy their garden-like surroundings to the fullest extent through their wide-opening Lupton Casements. Their modern windows cost but $360.



Lupton Casements actually make small rooms seem more spacious. With their wide expanses of glass, broken only by trim lines of steel, they give the maximum sunlight obtainable through a window opening. This virtue is illustrated in the doctor's house at the left. This snug dwelling was generously supplied with Lupton Steel Windows for a total list cost of $376.



Here the bright small panes and graceful lines of Lupton Casements give scale to the walls and gables and add a note of modern style to the entire house. The steel window equipment of this residence was covered by the small sum of $400.

Many other homes, as well as the construction details of Lupton Windows, are shown in our little book "Better Windows for Your Home." Write for a free copy.

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A TERRIFIC crash heard for blocks! People nearby drop their work and run to the scene. Motorists stop and collect around a twisted mass of steel and wood that a moment before was a fine automobile. They spring to the work of rescue. Beams are lifted, the wreckage is turned over, and there lies the driver, dead!

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$2.00 pays for ACCIDENT INSURANCE for a whole year!
Cash benefits up to $10,000.00

Special Anniversary Appreciation Offer

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No matter how much insurance you carry, you cannot afford to pass up this bargain offer. This liberal policy is available to every member of your family between the ages of 15 and 70 years —*with no physical examination* required.

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Although the cost of this policy is only $2.00 a year it pays cash indemnities of $10.00 or $20.00 per week, for as long as 15 weeks, if you are disabled by accident. And it pays as high as $10,000.00 *cash* in case of accidental death.

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You pay only $2.00 for this policy now, and $2.00 each following year keeps it in force. 10% will be added to specified benefits each year until 50% is thus added *at no extra cost*, so that in case of death or disablement from a specified accident your heirs may receive as much as $15,000.00 in cash.

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On receipt of $2.00, this policy will be sent to you subject to your inspection and approval. If not satisfied, return it within 10 days and your two dollars will be refunded. *And during the 10 days you will have full protection.*

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Enclosed find $2.00 for which please send me one $2.00 Anniversary Appreciation Accident Policy of North American Accident Insurance Co. It is understood that I can hold this policy with full protection for 10 days and then if not satisfied I can return it, and you will refund my money.

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(Write below name, relationship to you and address of person to whom you want insurance paid in case of death, otherwise it will be payable to your estate.)

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For policies wanted for other members of the family give information concerning each on a separate sheet and send with $2.00 for each policy wanted. 58-1A

A small garden spot will produce many good meals

We Grow Our Vitamins

NELLIE A. BLAKE

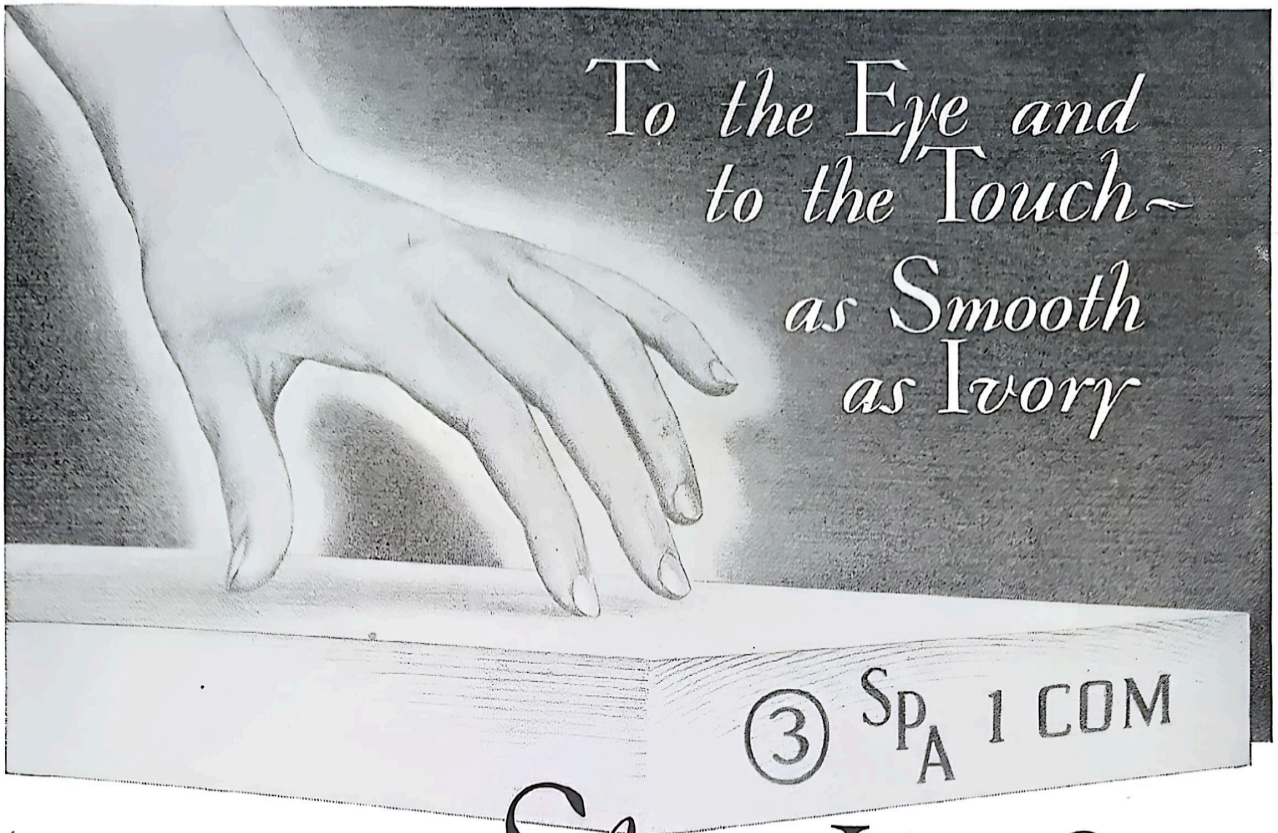
MY husband has always believed that a garden should be planted in straight rows, and he is probably right, tho I cannot be sure for I have never had any experience with that kind of garden. Each year I make an heroic resolve that this year my garden will have straight rows. Each year I strive mightily to achieve straight rows, and each year I fail utterly. To my husband I have never admitted that I cared a pin about straight rows but always as I have looked at my lovely haphazard garden, I have felt a twinge of regret that my rows were not straighter, just a wee bit straighter.

But my garden seems to understand that I have tried, and as if to comfort me has thrived to the wonder of all beholders. Mine is a backyard garden, approximately forty-five feet square. Each year it supplies my table and my neighbors' tables with flowers. Each summer and all summer my family revels in fresh expensive vegetables, and each winter we make smug rejoicing as we eat the fruits of my garden. We figure that the actual cash value to us of our forty-five-foot-square garden is $100 a season. That includes only the vegetables and fruits. We make no effort to measure the value of the flowers. They are just a free gift from Heaven.

How beautiful a vegetable garden can be I never knew until I made the acquaintance of the vegetable gardens of the Chinese and Japanese gardeners along our Pacific coast. Since that time I have had a secret ambition: I would have a garden as beautiful as theirs. My ambition will never be realized, I know now, but I no longer care greatly. Their rows are always planted with mathematical and geometrical accuracy while mine are filled with erratic curves and patches. But even so my garden is ever lovely, and as productive as theirs. I learned from them the secret of playing fair with the soil, of paying back what I take away. I learned too, the reward that comes from patient weeding and patient cultivation, the reward that comes to the dirt gardener who does not fear dirt, but who actually loves his soil. I learned that land can be two-cropped.

HERE in Michigan most gardeners are satisfied with one crop but I have found by experience that it is possible to a surprising degree to two-crop my soil.

Three rows of asparagus extend the whole length of my garden along the east side. These furnish us with our earliest fresh vegetable and continue to furnish us with delicious tender tops until the first of July. We who are ordinary folk, struggling to pay for a most unpretentious home plus a yard for the children, eat in the spring time such asparagus as might be the envy and despair of kings. The cutting season past, my asparagus bed is still a thing of delight and beauty. All summer its lovely plumes wave in the breezes. All summer it furnishes delicate green for bouquets. All summer my



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Among all woods none is friendlier than that which comes from the short-leafed trees of Southern Pine—known to the trade as Short Leaf Southern Pine.

As correctly finished in the modern Southern Pine Association mills, this wonderful wood, with its beautiful delicate grain—its *character*—is as smooth as ivory to the eye and to the touch. Its soft texture permits a finished surface, almost satiny in appearance.

For the interior beauty of a home, more expensive woods from the four corners of the globe offer no greater advantage and few equal it. The softness of Short Leaf Pine makes it easy to tool, to fabricate in intricate designs and the most particular cabinet makers love to work with it.

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Have your lumber dealer show you this unsurpassed building material especially made for interior woodwork.

A beautiful booklet entitled, "Built-in Beauty for Homes Old and New," will be sent you free. Please use the coupon below.

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When Short Leaf Southern Pine is used, built-in conveniences and permanent ornamentation become as attractive as fine furniture. Insist upon having this wonderful wood from the old South.

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Gentlemen: Please send me your new free booklet entitled, "Built-in Beauty for Homes Old and New."

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Out they go *Quick!*

New Method Kills cutworms, snails, slugs, earwigs, sowbugs, grasshoppers

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THESE pests, authorities say, cause millions of dollars worth of damage to gardens every year. They are unsightly, too—unbecoming to your garden beautiful.

Use Snarol to get rid of them. This is simply a ready prepared meal that you broadcast on the ground under the plants and flowers. It is not a "contact" poison but a food which the pests eat and are thus destroyed.

Rain and sprinkling will not lessen the efficiency of Snarol—an important feature around wet gardens. Also, Snarol is *non-injurious* to vegetation when used according to simple directions.

Get some today. The country's biggest gardeners and thousands of home owners endorse it. We pack Snarol in convenient 1 lb. and 3 lb. packages and 15 lb. bags. Seed stores, hardware dealers and many leading drug stores will supply you. Write Dept. 45, Antrol Laboratories, Inc., 651-53 Imperial Street, Los Angeles, California for 24-page booklet on Pest Control and name your nearest dealer.

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Antrol, a companion product to Snarol, quickly kills Argentine and other sweet eating ants. Not *a paste or powder* but a complete system composed of tiny glass jars which you fill with Antrol syrup. These jars then stand "on guard" like sentinels.

Use Antrol

Snarol

The National Pest Control

kitty hides in its dense shaded coolness, and pounces out from its jungle shelter to beguile me from my hoeing and win me to play a while with her. In autumn when the dark green plumes are enlivened by the bright red berries the children play that they are Christmas trees.

Dahlias are the one flower in which my husband takes greatest delight, so a choice spot is always selected for the dahlias tho the spot must change from year to year in order properly to rotate our crops. Tenderly we watch over and care for the dahlias and richly they reward us from the time the first green leaf pushes thru the earth until late autumn when drowsy bees find shelter among the petals of their gorgeous blooms on nights that hint of winter.

After the spot has been selected for the dahlias, and very early, while there is still danger of frost I plant my earliest vegetables, lettuce and onions and beets and carrots and chard and wrinkled peas. If the frost does come these things do not mind it; if the frost does not come, I am so much ahead. Usually we have lettuce in quantity before Decoration Day, while our green peas are ready a week or ten days before the Fourth of July, the traditional time in Michigan for new potatoes and green peas. I do not go in for potatoes at all. I leave that to those who cultivate more land, less intensively. Most of my garden space I devote to the vegetables which are relatively more expensive, which do well under intensive cultivation and which we could scarcely afford to purchase at market prices. I do grow some of the cheaper vegetables for they require but little room and because they are so pretty. The west side of my garden I border with carrots. The leaves are almost as lovely for bouquets as asparagus and they survive many a frost. Near the carrots I plant chard and beets and onions and peas. Their various shaded greens make a color combination of unfailing delight.

At intervals in the edge of the rows of lettuce, and among the carrots where I expect to pull them before late summer, I plant squash and pumpkin and cucumbers. They make good progress with the others, and when the early vegetables are gone, the ground is theirs.

WHERE my early peas come out, tomatoes go in. I usually put up ten or fifteen pints of peas from the garden, during the season, and we revel in green peas as we earlier reveled in asparagus. I have tried planting early tomatoes between the rows of peas. That works well, for the tomatoes are just ready to spread when the peas are done. Incidentally I would speak a word here for the volunteer tomato. I never discourage it. Whenever something fails to grow, or when accident destroys some tender plant, pop in its place goes a volunteer tomato. It is hardy, hardier than the hot house plant, prolific and usually blight free. Ready also to pop into every square foot of earth which for some reason is not occupied I have plants of cabbage and cauliflower and kohl rabi and Chinese cabbage. I sow them very early and very thickly in a space for each type of plant about eighteen inches in diameter, and between the raspberry bushes. They make a good growth before the berry bushes are leafed out sufficiently to shade them. Many of these plants I never use, but I would rather let a few plants die

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Keeping an old ice-box, or lugging it around when you move, is not modern economy. Today's standard of living demands refrigerating . . . not "ice-boxing". And the modern refrigerator must fulfill two requirements . . . . preserve food in flavor as well as body structure . . . . and present a smart appearance. Take the Automatic . . . . it "feeds your food freshened air", actually circulating and freshening the air inside. And its comfortable roominess is smartly encased. Built foodsafe with tight doors. Roomy doors, too—even the smallest one is big enough to admit a bottle of milk without bending it! Built-in water cooler; easy-to-clean trap. Lots of shelf room, and the inside . . . . just as sweet as one of Grandmother's polished saucers. All porcelain inside and out; wood and steel cases, porcelain or enamel lined . . . . all models adaptable to electric unit. We'll send a booklet describing other Automatic features, including our famous ice-saving insulation. Just write . . . .To:

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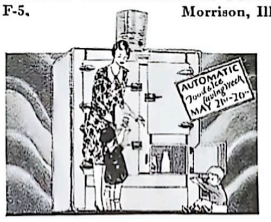

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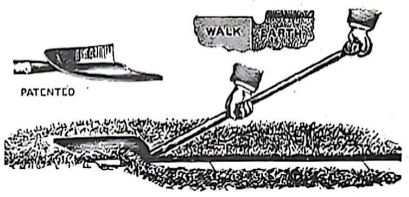

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Keeping your lawn looking like a park is a simple and easy matter when you trim the edges with an **Imperial Lawn Edge Trimmer.**

A few minutes' pleasant work with this easily-handled tool trims off the rough, straggling, overhanging grass and puts a clean, sharp edge along your curb and walk—also provides for quick drainage of your sidewalk.

After all, your lawn *is* your park and you owe it to yourself to keep it the neatest in your neighborhood. If your hardware dealer doesn't stock **Imperial Lawn Edge Trimmers** send us his name and $2.00 and we'll ship you postpaid.

IMPERIAL BIT & SNAP COMPANY
1410 14th STREET, RACINE, WISCONSIN

The BLACKSTONE
South Michigan Avenue
and the Lake Front
CHICAGO

Rates as low as five dollars single and six dollars double, with bath. Unexcelled food and world-renowned service which has been accepted as the standard of hotel perfection.

The Drake Hotel Company, owners, also operate The Drake, Lake Shore Drive and Michigan Avenue, Chicago.

because they are superfluous than to let any of my ground lie unused.

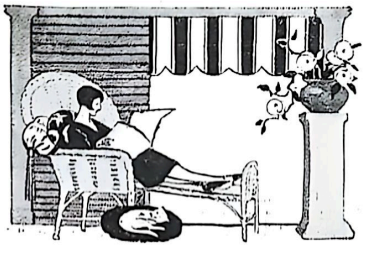
Tomatoes probably bulk as my biggest crop. Each year I can about a hundred quarts. From the green tomatoes, rescued when the first frost is certain but before it comes, I make pickles of various kinds. In addition, last summer I sold about $5 worth of early tomatoes, sold them because they brought so much a pound that I simply could not afford to can them. I even sold some green tomatoes.

I take off usually for winter use some 250 to 300 pounds of Hubbard squash and pie pumpkins. Stored away in the cellar for winter use are from half a bushel to a bushel and a half each of carrots and beets, kohl rabi and onions. Stored away also are pickled beets, and cucumbers, as well as some thirty or forty quarts of Swiss chard. Cabbages gathered from the garden supply us with summer and autumn salads. We have an eye to vitamins all the year round.

I HAVE in my garden one row of red raspberries half the length of the garand one row of black raspberries, two bushes of blackberries and a small patch of strawberries. Each year when the strawberries have finished bearing I dig up most of the old bed, leaving only enough plants along the west edge so that the next year they will send out enough new runners to make a new bed farther to the west. Where the berry plants come out I put in late cabbage or beets or turnips, or fall peas.

My blackberry bushes last spring were so loaded with blossoms that passers-by on the street used to stop and ask what those lovely bushes were. Then I would lead them out and show them the lovely things close at hand and listen, gratified, to their astonished exclamations. When the berries ripen, the bushes are equally lovely, tho in a different way. Last summer I canned twelve quarts of red raspberries besides the many quarts we had on the table. We ate most of the black raspberries. We ate strawberries every other day during the season and put nine quarts away for winter use. The two bushes of blackberries furnished us a surprising number of meals but no berries for canning.

One evening last summer, my husband, champion and advocate of straight rows, stepped into the backyard to view my garden with me. We stood together and looked at it a long time. It was beautiful. Then my husband said, "Nellie, your garden with its crooked rows, and vines rioting all over the place, is the most beautiful garden I ever saw anywhere. Prettier than any of the straight-rowed gardens." Now forever hereafter I shall enjoy my garden without the tiniest twinges of regret; my crooked rows are justified unto themselves.



IT PAYS TO BUY GOOD HOSE

Your lawn and garden hose will be in use practically every day from now till late in the Fall.

Get yourself a *good* hose—one that will be most serviceable over the longest time, and therefore the most economical:

Goodyear Wingfoot Hose.

This is the highest quality hose we make for lawn and garden purposes. Made in the popular ⅝-inch size to carry full volume of water. Highly abrasion-resisting cover, tough and rugged, for long, economical wear. It is light, flexible and easily handled. *It will not kink.* You will recognize it by the Goodyear brand and the four thick protective ribs that run lengthwise of it.

Other good hose values at moderate to very low prices are Goodyear Glide, Goodyear Pathfinder and Goodyear Elm Lawn Hose. Your hardware dealer has Goodyear Lawn Hose or can get it for you promptly.

The Greatest Name in Rubber

GOODYEAR

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LAWN HOSE

Oceans of Hot Water! *without* coal or gas

DISHES are done before you've had time to dread them, when there's a Perfection or Puritan Kerosene Water Heater to help you wash them. Touch a match to the burner of your heater. Scrape and stack the dishes. Place them in the sink. Turn the faucet. Out gushes the scalding hot water. Plenty of it. A few minutes—dishes done.

Five Models

There are five models of Perfection and Puritan Kerosene Water Heaters—one to fit every size family. Our new booklet describes them. One has a 30-gallon storage tank that keeps water hot a day and a half. Two turn themselves off when the water is hot. All are fast. All light instantly. All burn kerosene, the safe, economical fuel. All work equally well in homes with or without running water. Prices, $23 to $190.

No. 411—Popular-priced model built for use with 30-gallon storage tank.

Free Booklet

Send coupon for new illustrated booklet describing these splendid heaters.

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7571 Platt Avenue • Cleveland, Ohio
Sold in Canada by General Steel Wares, Limited, Toronto, Ontario

PERFECTION *Kerosene* **Water Heaters**

Free—Send today! 456
PERFECTION STOVE COMPANY
7571 Platt Avenue • • • Cleveland, Ohio
Gentlemen:
Please send free booklet describing Perfection and Puritan Kerosene Water Heaters.

Name _____
Address _____
City _____ *State* _____

Seven Dinners for Seven Days

Continued from page 31

shoulder cut into small pieces suitable for stewing. Melt fat in the bottom of the kettle; roll meat in flour and brown well in the fat. Cover with hot water; season with 1 teaspoonful of salt, 1 teaspoonful of paprika, and pepper to taste. Reduce the temperature and simmer slowly for two hours, then add 8 small white onions, 1 cupful of lima beans (canned or dried, previously cooked), 1 cupful of peas, 6 small carrots, and 6 medium-sized potatoes. Cook until the vegetables are tender.

Dumplings. Sift 2 cupfuls of flour with 4 teaspoonfuls of baking powder and 1 teaspoonful of salt. Cut in 2 tablespoonfuls of butter and add enough milk to make a soft dough that can be dropped from the end of a spoon. Drop onto the meat and vegetables of the stew. (It may be necessary to remove some of the liquid so that the dumplings will not settle into the liquid.) Cover closely and cook for 12 minutes. Serve dumplings in a border around the stew.

For Thursday, stuffed flank steak is chosen because it has such excellent flavor, and it is not expensive for the reason that one steak "goes a long way."

Stuffed Flank Steak. Flank steak is an example of the less-tender cuts which should be cooked slowly in a covered pan. Select a good-sized flank steak. Wipe the meat with a damp cloth. For the stuffing, cook 1 minced onion and ½ a minced green pepper with 2 tablespoonfuls of butter and ½ cupful of water until tender. Combine with 1½ cupfuls of stale bread crumbs, and bind with 1 egg slightly beaten. Add more water if necessary to make the dressing moist enough. Season with salt, pepper, and celery salt. Spread the stuffing over the steak, roll it up, and sew or tie into shape. Sear in a small amount of fat until brown on all sides, then add a little water; cover closely and bake in a moderate oven until the meat is tender—from 1½ to 2 hours.

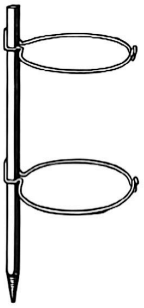
Baked Onions. Select uniform Spanish onions. Remove the skin and parboil gently, taking care that the onions do not fall apart. When tender, take from the water, make a small cavity in each one, and fill this cavity with a few well-buttered crumbs. Season with salt and pepper, place in a shallow pan, and put into the oven for about 15 minutes. Serve in a border around the flank steak.

For Friday, a choice of baked eggs or fresh pork loaf is given. The eggs are an excellent choice for a day when you are to be away from home until dinner time.

Baked Eggs. Break the required number of eggs into a shallow glass baking dish. Sprinkle liberally with grated cheese, dot with butter and season with salt, pepper, and paprika. Pour over them enough cream to nearly cover the eggs and place in a moderate oven (350 degrees) until the eggs have become firm—about 15 minutes.

Fresh Pork Loaf. Chop fine 2 pounds of lean pork from the shoulder with 1 medium-sized onion. Mix with 2 cupfuls of bread crumbs soaked in 1½ cupfuls of warm milk. Season with salt, pepper, and sage. Add 2 well-beaten eggs to bind, shape into a loaf, and bake in a moderate oven (350 degrees) for two hours.

ADJUSTO PLANT SUPPORTS

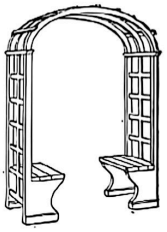


Save Plants—Space—Time!

Plant supports . . . use them on every plant, bush or shrub in your garden—from raspberries to sunflowers. Holds plants up in air and sunlight—eases cultivation. Square, sturdy, green, hardwood stakes—pointed at end with hoop strong spring wire adjustable to any height. 2 loops for taller plants. Eliminates tying and retying. Usable year after year. Stake a plant a minute. Low cost—write today for *free* literature describing Adjusto Plant Supports, prices, sizes, etc.

Garden Furniture Catalog

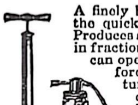
profusely illustrated. Shows how to beautify your grounds with all kinds of garden furniture and decorations, durably built of seasoned wood, beautiful, and reasonably priced. Shows, describes and gives prices of arbors, trellises, benches, pergolas, flower boxes, fences, etc. Send 20c for this large illustrated catalog *today.*



UNADILLA SILO CO.,
205 Clifton St., Unadilla, N. Y. *Makers of*

UNADILLA YARD *and* GARDEN DECORATIONS

New Way Lacquer Spray



A finely built, fully guaranteed, spray gun for the quick and easy application of lacquer paint. Produces a uniform, smooth, lasting "duco" finish in fraction of the time needed to brush on. Anyone can operate it. Adjustable atomizing head affords a continuous spray. For auto, furniture, woodwork, radiators, screens, machinery, etc.—a hundred uses in any home or garage. Can be used for spraying oils, disinfectants, insecticides.
Type A—with glass container - - $1.95.
Type B—glass container, 8 ft. hose and foot pump - - - - - - - - - - $3.45.
Less foot pump, for your air supply 2.25.
Postpaid anywhere with booklet of instructions on receipt of price. Extra Glass or Metal Tanks—25 Cents Each
Send 10c postage for 3000 word book: "How To Do Lacquer".
NEW WAY SPRAY GUN CO., 5512 Euclid Ave., Cleveland, O.

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Tilt Top Table

Color and Decorate it Yourself

Save Money—Have Fun!
Priced less-than-wholesale to acquaint you with Guild savings and money-making plan. Finished piece costs $5 to $7 in stores. Very attractive, substantial, practical. Top 14" x 22". Height 31½". Just apply lacquer. We furnish everything for only $2.98, including color chart, lacquer, brush, transfer, simple instructions, etc. Painting things yourself in the colors you want is easy and lots of fun.
Make Money Big opportunity finishing Guild unpainted furniture and selling at attractive profit. We'll set you up in business. Furnish everything. Catalog gives all particulars, also **FREE CATALOG** contains everything in unpainted home equipment, lacquers, brushes, art transfers, etc. Buy direct, save money. Write quick for FREE copy. No obligation. Send NOW.
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Candy Making Home Trade Pays Big

The Candy Business is the only business where the LITTLE FELLOW has the Big Fellow at a disadvantage. Turn your Kitchen into a small Candy Shop, and start making big money almost from very first day. Many now rich started with no capital. Trade Secrets taught by a man who made big success himself. We furnish tools. FREE BOOK explains.
CAPITOL CANDY SCHOOL
Dept. Y-2416, Washington, D. C.

Silver and Gold Salad. This is a very attractive as well as appetizing salad altho the combination of onions and oranges is somewhat unusual.

Remove the skin from a Spanish onion. Slice in thin slices and marinate for half an hour in French dressing. Remove skin and membrane from the oranges, slice thinly and arrange with the slices of onion on a lettuce leaf. Serve with French dressing. Allow 3 to 4 slices of orange and 1 or 2 slices of onion for each serving.

The Saturday dinner is a festive one, in which the colors green and yellow predominate. It is especially nice for a spring dinner party.

Fruit Cocktail. Peel grapefruit, separate into sections, remove membrane, and cut sections into 2 or 3 pieces. Cut pineapple slices into small triangles. Let the fruit stand in its own juice which has been colored green with fruit coloring. Add green maraschino cherries and serve in tall glasses. If desired, an attractive variation is to serve the cocktail in double cocktail glasses and instead of coloring the fruit, either pour colored water around the ice in the outside glass, or, if one has electrical refrigeration the water may be colored green before the cubes are frozen. Have the glasses in place before the guests assemble as they add to the appearance of the table.

Mock Duck. A choice is given in meat dishes, the crown roast of lamb being a cut greatly in demand and consequently higher in price than the other which is made from the forequarter. Mock duck, however, makes a most attractive and unusual meat dish.

Have a mock duck prepared at the market from the shoulder of lamb. Rub with salt and pepper. Brown in a hot oven (550 degrees), then reduce the temperature to about 350 degrees, add a little water, cover and roast until done, allowing 32 to 33 minutes per pound for cooking. If the meat thermometer is used, the temperature should register approximately 185 degrees when done.

Crown Roast of Lamb. Have a crown of lamb of the desired size made up at the market. Fill to about one-half the depth of the crown with a savory poultry dressing. To prevent charring, put a cube of salt pork on the end of each rib bone. Put into a hot oven (550 degrees) for 15 minutes, then reduce the temperature to 350 degrees and continue cooking, allowing about 30 minutes per pound. When done remove the cubes of salt pork from the ends of the ribs and replace them by paper frills. Fill the crown with hot buttered green peas. Serve on a platter garnished with parsley.

Spring Green Salad. Make a perfection salad, coloring the jelly green with vegetable coloring. Mold in individual molds, clover leaf shaped, if possible. Serve with mayonnaise dressing to which a tablespoonful of minced parsley has been added.

Casserole; pie plate; utility dish: bread pan; 6custard cups—only $5.15.

$5.15 buys enough PYREX dishes for all your *every-day baking*

ONLY $5.15! And you can do all your every-day baking in Pyrex ovenware. Bake hundreds of recipes in these 10 Pyrex dishes that are so cleverly patterned you can use them for dozens of different foods.

All foods bake better in Pyrex dishes than in metal. It's the way Pyrex ware stores up heat in itself—then distributes it evenly to the food within, baking every part, crust, sides, center, equally well, clear through.

Only half the dishwashing, too. For of course your Pyrex baking dishes are also serving dishes. They retain heat—keep second helpings piping hot. They never discolor food; affect taste; crackle or craze. Need no scouring. Last for years.

And a Pyrex outfit for this better baking, hotter, quicker serving—is only $5.15! At all hardware and department stores.

Guarantee

Every piece of Pyrex Ovenware is guaranteed for 2 years against breakage from oven heat.

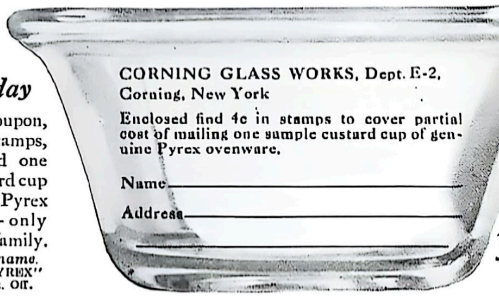
Pyrex Nursing Bottles at all drug stores. Narrow Neck or Wide Mouth. 8 ounces.

This is the $5.15 list

Covered casserole, No. 623 round, or No. 653 square, or No. 633 oval, or No. 643 shallow—medium size.....$1.75
Utility dish, No. 231—medium size.....1.00
Six custard cups, No. 410, 3-oz. size.....60
Pie plate, No. 209—medium size.....90
Loaf pan, No. 212—medium size.....90
Baking equipment.....$5.15
All prices slightly higher in West and Canada.

Send 4c for this sample Pyrex Custard Cup

This coupon not good after August, 1928



Send Today

For this coupon, with 4c in stamps, we will send one sample custard cup of genuine Pyrex ovenware — only one cup to a family.

Please print name.

Trade Mark "PYREX" Reg. U. S. Pat. Off.

CORNING GLASS WORKS, Dept. E-2,
Corning, New York

Enclosed find 4c in stamps to cover partial cost of mailing one sample custard cup of genuine Pyrex ovenware.

Name_____

Address_____

4¢ *in stamps for this sample Pyrex Custard Cup*

SEASHORE COMFORT *for your Home*

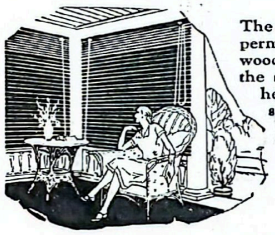
Vudor

PORCH SHADES

VUDOR Shades transform your sunny porch into a cool, shady place where you can enjoy indoor privacy with out-of-door comfort.

Here the family may read, rest, sleep and entertain in refreshing freedom from summer's torrid heat.

VUDORS make home more attractive—both inside and out. Their cost is moderate.



The beautifully and permanently stained wood strips keep out the sun's glare and heat. The exclusive woven-in ventilator insures perfect air circulation.

Write for color folder and name of local dealer

HOUGH SHADE CORPORATION
1059 South Jackson Street
Janesville, Wisconsin

The only shade made with a Ventilator

Salad Accessories

Continued from page 52

stove. Recently also, buttered popcorn was offered with fruit salad. With these accessories, no bread or crackers are needed.

Waffles, which today seem to intrude into every meal and into almost any course of the meal, have wedged their way into the salad course. They are made at table, of course. There are several ways of serving them as salad accessories, but a favorite method of presenting them is to butter them while hot and crisp, cut them into fingers or into fourths and pass them in this shape. Guests eat these in their fingers.

So much for accessories that are substitutes for bread or for plain crackers. There are other ways to dress up a salad with unusual "trimmings," as it were. Squeezed cucumbers are great favorites with fish salads. To prepare them, peel the vegetable and slice it very thin. Place the slices in ice water that has been well salted, and let stand several hours. An hour or so before serving them, empty them into a clean piece of cheesecloth and then squeeze out all the water from them. Place in a small dish, cover with a French dressing or with vinegar and put into the ice-box till needed. Pass after salad has been served.

Celery stuffed with a half-and-half mixture of cream pimento cheese and Roquefort cheese, well blended and softened with Worcestershire sauce and a bit of sweet cream is a delightful accessory to a jellied vegetable or fruit salad. Canned pears stuffed with a cheese mixture as above and topped with minced celery and nuts are tasty, too.

Fried Camembert cheese is a new wrinkle in salad accessories. To prepare it, cut the cheese into cubes, taking off the top and bottom layers. Cover with a mixture of cracker crumbs and egg yolks, and drop into deep fat to fry.

In giving your salad "modish lines" don't overlook the many molds which will form the salad in an intriguing shape.

And as this is an age when bright jewels must help complete every ensemble, don't forget the many food "jewels" with which you may bedeck your salad. They may be arranged to simulate a cluster of berries, a branch of posies, a wreath or a garland. They may be so placed upon molded gelatine or upon a salad covered over with stiff mayonnaise as to represent a heart, a ring, or anything desired. Caviar, capers, wintergreen berries, huckleberries, pomegranate seeds—any of these may be combined with watercress or parsley to form berry clusters or imitation bouquets.

Remember too, that string beans, carrots or green peppers, cut in fancy shapes, hardboiled eggs and bits of aspic are invaluable aids in making the otherwise ordinary-looking salad appear a food fit for the gods.

"Thrifty Recipes" is a little booklet which will delight any housewife. If you haven't a copy, send ten cents today to Editorial Dept. H., Better Homes and Gardens, Des Moines, Iowa.

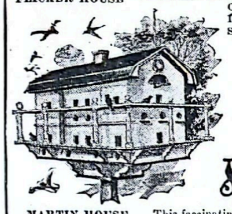
The Happy Little SONG BIRDS are looking for Homes

WREN HOUSE

FLICKER HOUSE

Why not invite them to your grounds by putting up houses built to fit the needs and habits of each little tribe? Enjoy seeing and hearing the beautiful little songbirds singing or working in your garden hunting the cut worms, bugs, moths, caterpillers and other annoying insects which devastate your choice trees, shrubs and flowers. Martins feed from the air and each one destroys thousands of mosquitos every day. Your thoughtful provision of the kinds of homes they like, water to bathe in and some simple foods they crave, will bring multitudes of beautiful and useful song birds to your garden year after year.

DODSON scientifically designed and artistic bird houses are a feature in the most beautiful estates, country clubs and parks all over America. We number among our patrons many of the most prominent men of this country and will be glad to refer you to them. Sold only direct or through our representatives. A few choice territories still open.



MARTIN HOUSE OF 48 ROOMS

Free

This fascinating book, "Your Bird Friends and How to Win Them" sent to anyone who loves our beautiful songbirds. It illustrates, describes and gives prices on all styles of bird houses, shelters, bird baths, special foods, etc. Mailed free on request.

JOSEPH H. DODSON, Inc.
502 Harrison Street, Kankakee, Ill.

Plant this wonderful collection of
Glorious Gladioli
They will make your garden gay from July till frost

The giant spikes will surprise you with their wonderful shades and blendings, varying delightfully as they open in water until the terminal bud has faded. Plant in April and every ten days till mid-June for late summer and Autumn flowers. We grow millions of Gladioli on our Long Island Farms, and want to introduce these grand all-summer flowers to thousands of American Home Gardens; so we offer:—

100 bulbs, all sure bloomers (1½ in. and up) in a choice and varied assortment, prepaid anywhere in the U. S. $3 for cash, check, or M.O.
(For small buyers, 30 bulbs, prepaid $1.)

With each order we send our beautiful, illustrated booklet, "Best on Earth Gladioli," describing many rare novelties and standard sorts.

Please send cash with order

GEO. J. JOERG, Inc.
40 Years Growing Gladioli
(Box B) NEW HYDE PARK, L.I., N.Y.

Give Your Roses a Chance

100% Effective

Roses, and other flowers, can not thrive when infested with Aphis or Plant Lice. Keep them flourishing and healthy by spraying with

ROSE NICOTINE
—TRADE MARK—

Get a bottle of "Rose Nicotine" from the nearest drug store. It has been the standard flower spray for a quarter of a century. Vitrol sprays will NOT kill Rose Aphis—you MUST use Nicotine.

Three Sizes
20 Cents
40 Cents
75 Cents

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Big Profits in Home Cooking!

Alice Bradley, famous expert, shows *just how* to make home cooking, cake-making, candy-making give big profits. *How to* cater, run profitable **TEA ROOMS,** Motor Inns, Cafeterias, etc.,—over 51 Ways to Make Money, in your own business or good positions. Write today for illus. booklet, "Cooking for Profit," it's **FREE.**
American School of Home Economics, 871 E. 58th St., Chicago

The Pink Azalea

ONE of the native American plants that was highly treasured by the early Dutch settlers is the pink azalea or pinxter flower. It was christened the pinxter flower because the blooms first appeared on Whitsunday, a day called pingster by the Dutch. The beautiful shrub soon found its way across the waters where European gardeners hybridized it with other species, forming the basis of many of the handsome horticultural azaleas that later returned to their native land under new guises caused by mixture with foreign blood.

Pink azalea is one of the most striking of native American wild flowers. The plant is a hardy shrub that grows in greatest luxuriance in the Allegheny highlands from New York to Georgia, altho scattering growths may be found from Maine to Illinois and southward almost to the gulf. Farther west it is familiar in gardens, since the pink azalea lends itself readily to cultivation as long as the soil is acid. It is one of the relatively few plants that demands an acid soil and refuses to grow where the ground is sweet. The plant resisted all efforts at cultivation until this discovery was made, but now the pink azalea reaches its greatest development in gardens made acid for its reception.

The strikingly handsome pink flowers frequently expand before the leaves develop or while the foliage is quite young. The long, graceful stamens are clustered into a natural platform upon which pollinating insects alight and are rewarded with an abundant supply of nectar. The nectar of this species has been accused of causing poisonous honey, but investigations by the United States department of agriculture have failed to support this theory. The leaves, however, possess narcotic properties and there is a possibility that they may prove poisonous to livestock when eaten in quantity, which rarely happens.

In company with so many of our most attractive wild species, the pink azalea has been gathered in such large quantities that it is practically extinct over a large area where the plant was formerly abundant. Professional flower gatherers have entered the heart of the Alleghenies where azalea thrives best, and have sent trainloads of the gorgeous blossoms to the cities, to be sold by florists and street merchants. This practice, fortunately, has been stopped, but the plant does not reproduce readily and much harm has been done.—Albert A. Hansen, Purdue Experiment Station.

Write a letter now for big money in FERRY'S SEEDS

$5000.00 Contest

¶ $2000 *in* 61 *prizes for grown-ups*
¶ $2000 *in* 105 *prizes for boys and girls*
¶ $1000 *in* 17 *prizes for Ferry's Seed dealers*

Grown-ups and young folks: From you we want letters on "Why I Plant a Garden." We want to know all the reasons why people plant gardens. Perhaps you plant yours for the flowers you get for your vases. Or for the salads for your table. Or for the savings from having a fresh market free at your kitchen door. Or for the health from eating the finer foods, and from working outdoors among growing things. Or from the pin money that is yours because you sell some of the produce. There must be many reasons why you plant a garden.

For the 61 best letters from men and women we will pay 61 cash prizes. The first prize $500; the second $200; the third $100; then eight $50 prizes; twenty $25 prizes; and thirty $10 prizes.

For the 105 best letters from boys and girls (sixteen and under) we will pay 105 cash prizes. The first $500; the second $200; the third $100; then four $50 prizes; eight $25 prizes; twenty $15 prizes; thirty $10 prizes; and forty $5 prizes. Juveniles and adults write on the same subject. But they don't compete with each other. The two sets of prizes are distinct.

Awards won't be based upon fine writing, correct spelling, or cleverness. But upon *ideas*. What is it that sets you to work each year digging your garden, sowing seed, pulling weeds, fighting dry spells and pests? What do you do it for? These are the things that will interest the judges. The kind of garden and size do not matter. Just read the rules, write your letter—and mail it before closing date: May 15.

Ferry's Seed dealers: From you we want letters on "How I Promote the Sale of Ferry's Seeds." The 17 best letters will win prizes. "Best" here means those letters most helpful in suggesting to other dealers how to sell more Ferry's Seeds. Tell us your experiences with the Ferry display boxes, the beautiful lithographed Ferry display packets, the attractive poster in your store window. Where is your box displayed to get maximum sales—on the right side of the store near the front? The first prize is $309; the second $150; the third $100; then four prizes of $50 each; and ten of $25 each. Read the rules before writing your letter.

RULES

1. All letters (except those from Ferry's Seed dealers) must be on the subject "Why I Plant a Garden."

2. Ferry's Seed dealers must write on the subject "How I Promote the Sale of Ferry's Seeds."

3. Letters not to exceed 500 words.

4. Contest commences NOW. Your letter must be mailed to D. M. Ferry & Co., Dept. A, Detroit, Michigan, by midnight May 15, 1928.

5. Name and address of writer must appear at top of each page of letter. (Letters from those who are sixteen and under must state age of writer under name and address.)

6. Employees of D. M. Ferry & Co. are not eligible.

7. In event of tie, each tying contestant will receive full amount of prize.

8. Awards will be made as soon after May 15th as possible, and all contestants will be notified.

9. The judges will be—Dexter M. Ferry, Junior, President D. M. Ferry & Co.; E. T. Meredith, Publisher *Better Homes and Gardens;* H. Hayward, Mgr. Agricultural Bureau, N. W. Ayer & Son, Philadelphia, Pa.

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HOW often, as a renter, you have wished for weatherstripping! Now, as you build that long-desired "home of your own," you can fulfill that resolve to have a thoroughly weather-stripped home.

NUMETAL WEATHERSTRIPS are not only effective—protecting your home against cold drafts at windows and doors—keeping out dirt and noise—but they are inexpensive. The men who build your home will install NUMETAL WEATHERSTRIPS at small cost. The saving in fuel alone will soon pay you back for the entire cost of installation! As NUMETAL WEATHERSTRIPS may be installed without removing windows or doors, they are also ideal for those whose homes are already completed.

The genuine have the name NUMETAL on every strip. Handled by leading hardware, lumber and building supply dealers. Mail the coupon for free booklet and name of local dealer.

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MAIL COUPON NOW

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Oklahoma City, Okla.

Please send your free booklet, "*The Finishing Touch*," and the name of nearest NUMETAL WEATHERSTRIP dealer to:

Name_____

Address_____

An Engineer Looks at a House

Continued from page 22

That is another strong argument for the double panes with dead air space between.

"There has been a steady improvement in the technique of heating houses. At first there was the open fire, giving out suffocating smoke. That is still in use among some of the Eskimo tribes. Then there was the open fireplace, which was highly inefficient, sending most of the heat up the chimney. Then came the stove, which was a little better, as it stood out in the room. Then came the furnace and various steam and hot water circulating systems, which are quite efficient. We have now come to the point, I believe, where we do not need to worry so much about producing the heat economically. We must now begin at the other end of the problem and see how we can conserve heat, once it is generated."

I asked Mr. Kettering what he considered the most efficient fuel for heating.

"Gas is the most efficient," he replied. "It is easily transported, clean, easily regulated, and its heat units may be utilized to a high percentage of efficiency.

"I realize, of course, that gas for heating homes is beyond the reach of the average householder in the United States. The price is prohibitive in most places, and makes it impracticable where insulation is inefficient. But if we can reduce the outward flow of heat fifty percent, we cut down our gas bill fifty percent, do we not? In that way, it is possible that gas may be used economically. Such a consummation is by no means impossible."

I was curious about the use of vacuum for insulation. When I was a boy I first saw the Dewar vacuum bottle, made for holding liquid air, and I often wondered whether the principle might not be used in house insulation. But it did not take Mr. Kettering long to puncture that idea.

"Oh, yes, we have experimented with that in our laboratories. But do you realize that the air pressure on a vacuum chamber is one ton per square foot? The only way to build a practical wall that will resist this pressure is to make it cylindrical or spherical, which is out of the question in a house or refrigerator. You cannot have supporting columns here and there, for these columns themselves would become conductors of heat, so there you are."

Insulation and ventilation, then, are two of the biggest problems in correct home engineering.

VENTILATION should be accomplished partially by stairways and other natural features of house construction. There are certain rules governing what is known as convectional heat that should be understood. Convectional heat is that which consists of warm circulating air. Radiant heat is considerably different, being of the type produced by electric heaters, which throw out rays of heat and do not warm the air of the room appreciably until certain heat-absorbing objects have warmed sufficiently to start warm air currents.

Putting heat into a house is the process of the "thermo-syphon," Mr. Kettering explained. It operates on the same principle as the liquid-syphon, in creating suctions, currents and paths of convection.

From the subject of heating we went

For Better Gardens Perfect Flowers

Kill Insects

You can have better gardens and wonderful flowers in all their beauty and perfection by keeping plants, leaves and buds free from deadly aphis (plant lice) and similar sucking insects. No matter what plants, flowers or trees are infested, "Black Leaf 40" is the Old Reliable Spray for keeping them free from these devastating insects. That is the successful gardener's way—he keeps "Black Leaf 40" on hand, knowing that these pests may appear almost overnight.

EASY TO USE

Complete and easy-to-understand instructions come with every bottle. The small size for 35c will make six gallons of effective spray. Sold also in larger sizes. "Black Leaf 40" is supplied by seed stores, hardware stores, florists and department stores.

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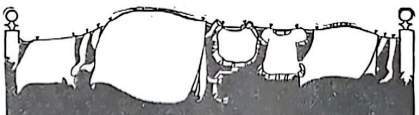
Louisville, Ky.

Spray "Black Leaf 40" 40% NICOTINE



surprise!

Try La France with your laundry soap. Don't rub—don't blue. Surprise! Washing done in one-half usual time! Clothes cleaner, whiter, more beautiful than ever!

Your grocer has

La France

LA FRANCE MFG. CO.
Philadelphia, Pa.

into that of partitions, and here appeared an interesting disclosure.

Mr. Kettering, in his home at Dayton, Ohio, has his first floor practically in one large room. There are movable partitions and sliding doors, but they are kept almost entirely open, so that there is an unobstructed view from the living-room fireplace to the sun-room.

"I think the house of the future will largely get away from the idea of isolated rooms," said the eminent engineer, who has applied some of his other ideas to his own home. "Of course with sleeping rooms and kitchen it is different, but living and dining rooms and halls are likely to merge into a more unified scheme, allowing greater facility for rearranging furniture."

ONE of Mr. Kettering's aversions is plaster.

"Why daub our walls with mud?" he said. "This seems to be a hang-over from the primitive stage. There are so many excellent wall coatings made now—coatings that help to insulate, and are very attractive. Plaster is a poor insulator. I think it will disappear before long."

"But how about concrete?" I asked.

"That presents a different phase of the problem. Concrete is structural. It is being used more and more, in connection with steel, in the construction of dwellings as well as of business and factory buildings. Structural ideas may be well borrowed from the industrial world. I look for steel framing to be used extensively in the home of the future."

This gave me another question.

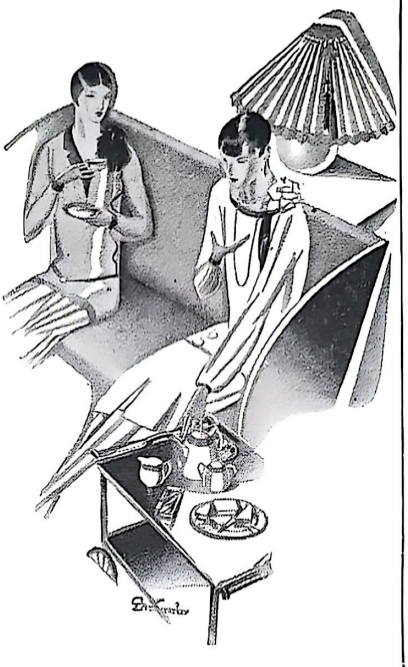
"How about flat roofs, then—like many business buildings have?"

"There is no reason, under modern engineering practice, why we cannot have flat roofs if we want them. These may easily support their weight of snow, and they will shed rain. Of course the gable roof was evolved entirely out of the need for shedding rain and snow. We think the gable roof is beautiful. So it is. But we may modify our ideas of architecture as we become more accustomed to new media and structures.

"Don't think I am finding fault with all the houses of today," said Mr. Kettering in summing up his opinions. "There are so many beautiful and comfortable homes. I think the American home is the best in the world. Americans should feel proud of their homes. I do think, however, that engineers might find a good many points wherein they may improve the construction and operation of the average home from a scientific standpoint, so as to bring greater comfort, and save much of the money that is being wasted. That is the big point. We are wasting too much to get what we have. We may not have so very much more comfortable homes fifty years from now but we will surely have much more efficient ones."

I left Mr. Kettering's office feeling that I had been in contact with one of the great motivating forces of American life. The stimulating contact with this engineering genius was parallel to that which I experienced in having a long talk with Theodore Roosevelt, in the closing days of his life, for, like Roosevelt, Mr. Kettering is a world citizen, a man who sees far into the future, and withal a man who understands humanity and the craving for the simple but vastly important things that have the home for a central power plant.

No greasy film



Gaily colored plates and cups — clean gleaming service silver — tasty foods —

tables — all furniture — showing no trace of greasy film

— this is the way of your modern hostess.

Old-fashioned furniture polishes have been discarded by your progressive woman. Discarded because all of them spread a blue-gray, greasy, dirt-catching film on table tops and other fine furniture.

Today millions of women use only the new Liquid Veneer. These women have found, just as the scientists' photographs of the white kid glove tests prove, that the new Liquid Veneer leaves no greasy film. Dirt does not stick to a surface polished with the new Liquid Veneer.

A few drops of Liquid Veneer on your dust cloth

— a few swift strokes, no hard rubbing, and quickly a mirror-bright polish appears on your table tops, furniture, and all your woodwork. And, remember, dirt and grime do not adhere to a surface polished with the new Liquid Veneer — because it *leaves no greasy film.*

An *improved* polish, still sold in the familiar yellow package, the new Liquid Veneer is a special formula scientifically compounded for polishing fine woods and finishes. You can get Liquid Veneer at hardware, china, drug, grocery, department, furniture, or general stores. Also see special offer below.

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White-Gloved finger tips rubbed over Liquid Veneer are not discolored. Liquid Veneer *leaves* no *greasy film;* requires no hard work in application.

Tests made by The Electrical Testing Laboratories, New York.

White-Gloved finger tips rubbed over old-fashioned furniture polishes reveal their greasy film and show why their use means hard work, too.

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2 Special Introductory Trial Offers

Liquid Veneer Corporation
4615 Liquid Veneer Bldg., Buffalo, N. Y.
I wish to take advantage of: *Offer A, 50 cents enclosed*

	Regular Price
Liquid Veneer Care and Repair Outfit	$0.50
Liquid Veneer Dust Cloth	.25
Book, "The Care of Fine Finishes"	.25
Total Value	$1.00
Special price postpaid	**.50**

Offer B 10 *cents enclosed*

	Regular Price
Trial bottle Liquid Veneer (Enough for two weeks' dusting)	$0.10
Liquid Veneer Dust Cloth	.25
Total Value	$0.35
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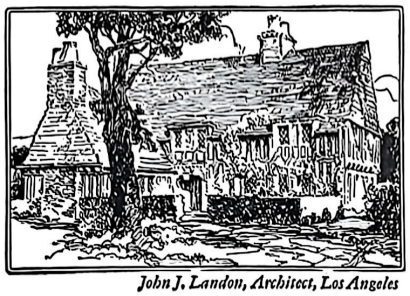
THE NEW LIQUID VENEER

dusts cleans polishes LEAVES NO GREASY FILM

An *all*-timbered half-timbered home...



John J. Landon, Architect, Los Angeles

—and it might be in Normandy

THIS design was awarded first mention in the West Coast Woods Architectural Competition. The architect designed it to reproduce—with West Coast woods—the charm of the cottages of Northern France... with their steep pitched roofs, timbered walls, carved beams and many other pleasing exterior and interior details.

The unusually attractive *all*-timbered half-timbered effect is obtained by the use of adze-surfaced wide Douglas Fir battens over extra wide Douglas Fir plank. Frame of Douglas Fir or West Coast Hemlock. The battens to be stained darker than the panels, with rottenstone dusted over all.

The roof is of vertical grain Western Red Cedar shingles or shakes with doubled ridges and eaves, and laid with a gradually lessening weather exposure as they near the ridge...fastened with zinc coated or copper nails to insure a permanent roof.

Interior paneling of West Coast Hemlock. Beams and posts of Douglas Fir—all to be stained and antiqued. The entrance hall and stair rail of Douglas Fir with sand etched design.

Living room to have exposed wood trusses of Douglas Fir. Dining room to be paneled in West Coast Hemlock—ceiling beamed with sand-etched Douglas Fir. Bedrooms in Douglas Fir, West Coast Hemlock or Sitka Spruce.

Floors are to be of wide Douglas Fir or West Coast Hemlock, pegged and grooved, and stained dark brown.

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Summer Care of Tulips

ROBERT WHITE

A GREAT deal of the success with tulips after the first year depends upon the way in which the plants are handled after they have done flowering. It is the popular belief that the plants are hurt by having their flower stems cut off for household or other decoration; but this is a mistake. The strength of the plants is really increased by this process, especially if the stems show a tendency to produce seed heads.

Seed production being the ultimate aim of the plant is a process which exhausts the supply of plant food stored in the bulb and taken up by the leaves to a greater or less extent; therefore it is always best to prevent the formation of seeds so as to force the plants to reserve all the food formed for use during a subsequent season. For this reason the first care of tulips should be to cut the flower stems either for decoration or as soon as the petals have fallen.

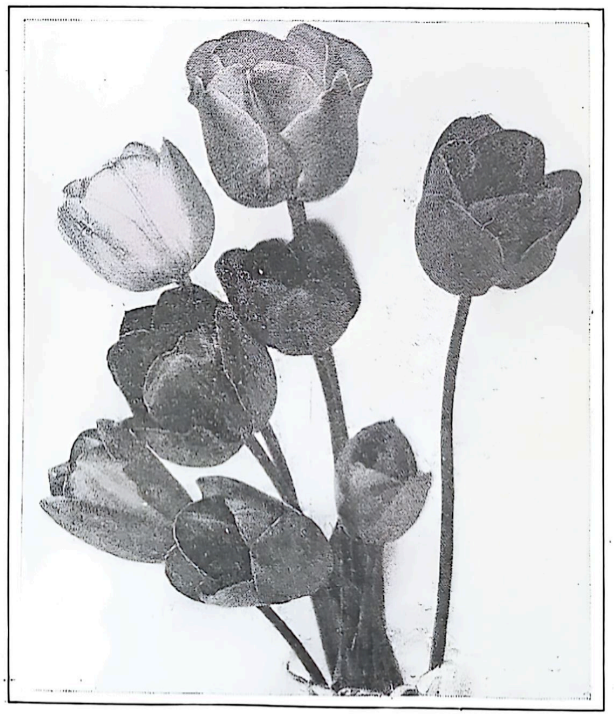
Many make the mistake of cutting off the leaves at the same time as they remove the blossoms. There is no excuse for this. It is admitted that tulip leaves are not very decorative, being too stiff and formal. But they are necessary for the well-being of the bulbs and the production of flowers in the following year. There is no surer way to destroy the bulbs than to cut the leaves because these leaves work over plant food which is to be stored in the bulbs, usually before the middle of June in the latitude of New England and New York, somewhat earlier farther south. Every leaf should be allowed to remain in position until it begins to turn yellow.

Even better results are secured when the leaves are allowed to die down completely. When the bulbs are left in the ground from year to year, best results are thus secured. But when it is necessary to dig them up the digging should be done when the leaves are seen to be failing.

In this latter case the failing of the leaves indicates that the bulbs are beginning to ripen. Then the whole clump—leaves, stems, and attached earth and roots—should be dug up and placed in a cool, dry place in the shade, until the leaves have become brittle and the earth so dry that it will break away in powder. Then the clumps may be cleared of all trash such as earth, dead roots, tops, and worn-out bulbs.

The large bulbs should be broken away from each other, but the small ones allowed to remain attached to the larger ones, or if desired, they may be separated and planted by themselves in a nursery bed. These small bulbs will usually not produce flowers the first year after being so broken away. After being cleaned the bulbs should be placed in cheese cloth or muslin sacks, each properly labeled with the name of its variety, and hung in a dry, airy, rather cool shed or loft. If not piled too deeply, they may be stored if preferred on slat bottomed shelves in a dry shed for the summer.

Tulip bulbs need not be dug up every year. If the (*Continued on page 133*



Don't be afraid to cut your tulips

We Grow Big Mums

Continued from page 17

the bed is located on the south side of a fence or low wall.

These plants are gross and heavy feeders, so the ground should be spaded to a depth of fifteen to eighteen inches and a liberal quantity of well-rotted manure thoroly mixed with the soil. It is well to prepare the bed in winter, and then just before the cuttings are planted out in spring the ground should be thoroly spaded again.

Here in Mississippi, 200 miles from the coast, very good results have been secured from cuttings planted during the month of April. Of course they may be planted earlier, or much later. If planted before the fifteenth of April they should be pinched back to prevent them from growing too tall and slender.

The cuttings may be planted in rows eighteen to twenty inches apart, and the plants from eight to ten inches apart in the row. When the plants have become well established and have about three pairs of leaves, the buds should be pinched out. This is particularly necessary if the cuttings are planted early; if planted very late it may not be necessary. When these buds have been pinched out, new shoots will start up from the axis of each leaf, and it is at this time that the grower must decide the number of blooms wanted from each plant. One shoot or stalk should be left for each bloom wanted and the others pulled off. Of course when only one shoot is left to each plant, the single bloom produced will be larger; but some may prefer two or three blooms of medium size to one extra large one.

I have found that when the plants are healthy and vigorous, two shoots may be left, each of which will produce a flower of splendid size and good quality. It has been found very interesting to leave one, two, and three shoots to the different plants and then observe the difference in the size and quality of blooms produced.

The growing plants will require much food and water and their needs should be looked after regularly. After the plants have made about twelve inches of growth, a light application of well-rotted manure should be placed on top of the ground; and later, nitrate of soda can be used to great advantage. We have obtained very good results by mixing a tablespoonful of nitrate of soda in two gallons of water and pouring it between the rows of plants. This commercial fertilizer is very strong and should not be permitted to come in contact with the foliage of the plants. Many growers declare that no fertilizer will take the place of cow manure, but we have spaded a small quantity of cottonseed meal instead of the manure into the soil, and later in the summer used nitrate of soda as outlined above with very gratifying results. Even tho the soil is thoroly enriched before the cuttings are placed, the plants should be "fed" at intervals thruout the summer and fall. This feeding with nitrate of soda may be started in midsummer, or when the plants begin to show the need of more food, and applied at intervals of two or three weeks until the color begins to show in the blooms, from which time no more fertilizer should be applied.

IT takes much food for the chrysanthemum, but the matter of fertilizer as well as that of water can best be judged by the individual grower. Most persons who have handled plants can tell at a glance if they are in need of food or drink. As with humans, they should be given plenty but not overfed. After such watering the soil should be cultivated around the plants.

All thru the season careful watch should be kept for sideshoots which appear at the axis of each leaf. These should be removed as soon as they are long enough to be handled. In the early morning they can be pinched or broken off without difficulty. If permitted to

A NEW CHRYSANTHEMUM

(Photograph on Opposite Page)

TWO years ago this magazine offered a prize of $100 for the best unnamed seedling chrysanthemum exhibited at the Sixth Mid-West Horticultural Exposition, November, 1926, to be named in honor of Mrs. Mary Sherman, President of the General Federation of Women's Clubs.

The judges awarded the prize to a pink single seedling, an entry of the Department of Horticulture, Iowa State College; a seedling which was originated in the college greenhouse under the direction of Mr. John Reardon, the college gardener. The chief merits of this seedling, aside from its coloring, are heavy blooming habits extending over a long season, good stems and clean foliage. The Mary Sherman Chrysanthemum is reproduced on the opposite page in its natural coloring.

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INVITING Nature's every brightest mood, Otis Woven Stripes bring new life to house and grounds.

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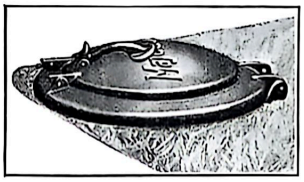
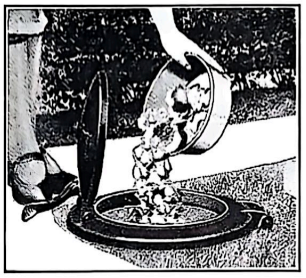
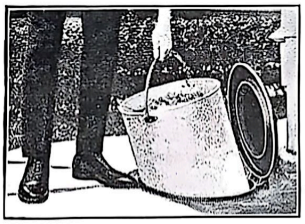
Majestic
UNDERGROUND GARBAGE RECEIVER



THIS is all you see above the ground. The garbage can is buried—underground—out-of-sight—protected by a steel shell and cast iron lid.

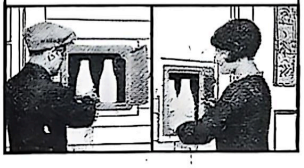


OPEN the lid by stepping lightly on the foot trip. The garbage is dumped into the can—underground—out of reach of flies and other pests. Take your foot off the trip and the lid snaps tightly shut—no odor can escape.



EASY to remove the can—when full, you simply lift it out. Hardware and department stores have Majestics in sizes from 5 to 20 gallons capacity—complete with can. Write for full information and your dealer's name.

HERE'S ANOTHER NEW CONVENIENCE



HERE is a useful convenience for the modern kitchen—the Majestic Milk and Package Receiver. Deliveries are placed in it from the outside, the door locks automatically when closed, and every article is safe until removed from within. Saves steps and guards against theft. Quickly and easily installed at moderate cost in any home, old or new.

Write today for the Majestic catalog describing garbage receivers, milk and package receivers, coal windows, and the other Majestic Products needed in every modern home.

THE MAJESTIC COMPANY
200 Erie St., Huntington, Ind.

grow they will rob the main plant of much needed nourishment to the detriment of the bloom.

Most chrysanthemums of the large-flowering type, unless planted very late in the season, will show in early summer a premature flower bud. These buds, of course, will not produce flowers and should be pinched out and one of the shoots appearing just under this bud should be selected to continue the growth. After the plant has made twelve or fifteen inches of additional growth, another of these flowers or crown buds will probably appear. This crown bud may be selected as the one from which the bloom will be obtained. Should this bud appear too early, however, it too should be removed and the plant permitted to continue its growth. These crown buds are readily recognized as they are single buds just beneath which will be found a cluster of bracts or imperfectly formed leaves. If the cuttings are planted about May 1st, it is probable that crown buds will not appear on all the plants, and that those which do appear may be selected and permitted to develop. On those plants which do not develop a crown bud, there will appear early in the fall a cluster of flower buds known as terminal buds, and one of these may be selected for the flower and the others pulled off. The central bud is usually the largest, and should be selected.

NO definite date can be given for selecting the crown bud, as their appearance is dependent upon the variety and the date on which the cuttings were planted. Generally speaking, however, any bud appearing before the first of September should be removed, but buds appearing after that time may be selected and permitted to develop.

By the time the plants are twelve inches high, they should be staked, as strong winds will blow them over, resulting in crooked stems, which in a large measure will destroy the value of the flowers. Ordinary plaster lath is very satisfactory for this purpose, but if something neater in appearance is wanted, stakes of iron or bamboo can be purchased from dealers in florists' supplies.

Except for the very early flowering varieties it will probably be necessary to protect the blooms from early frost. If the beds are arranged by a fence or low wall, a scaffolding can be easily erected over the beds or rows, over which may be thrown some old canvas or burlap on frosty nights. If this covering is so arranged that it will shed water, so much the better, as rain will sometimes damage the lighter colored blooms. A light protection from frost may be provided by pulling a small paper bag down over each bloom. These bags will also serve a good purpose in protecting white blooms from soot in sections where there is much smoke. This type of protection of course would not be very effective during rainy weather.

Of the great number of insects which prey on chrysanthemums in the South, the worst perhaps are aphids and thrips. In my experience in growing these flowers, I have never seen any group of them long free from aphids. They frequently appear in early spring and increase with almost unbelievable rapidity. When the first ones are discovered, immediate steps should be taken to exterminate them. Due to these insects being

MYERS
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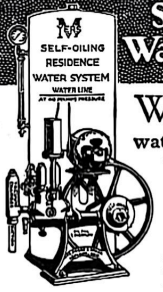

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very small, enabling them to conceal themselves on the undersides of the leaves, great care should be taken in spraying. If any insects are left, the plants will be thoroly infested again within a very short time. I have known cases where these insects had gone into the bloom before they were cut, and increased to such an extent that the flowers had to be discarded within a few days.

ONE year just as our blooms were opening, we discovered thrips in them, and not desiring to lose the whole crop, decided to take a chance on dipping them. After a gallon of nicotine solution was made up and placed in a shallow pan, one person carried the pan along the rows while another bent the plants gently down and dipped the flowers in the solution. This proved very effective and saved the entire crop for us. If this method is used for white flowers the solution should be made very weak in order not to stain them.

The most effective remedy for these pests is one of the nicotine solutions, which may be purchased at any seed store. We have found that it is frequently necessary to use it from 25 to 50 percent stronger than recommended by some of the manufacturers.

Last year we did not wait to use the spray until the aphids appeared. But at intervals of about ten days, we would spray a little of the solution into the buds of the plants, and as a result, had very little trouble with them.

After the flowers have been cut, the old stalks should be cut down near the ground, and in this latitude will need no protection thru the winter.

Should one desire to grow his own cuttings, a very satisfactory propagating frame can be made by using a wooden box 24 x 30 inches, 10 inches deep, into which should be put two inches of coarse sand, and covering with a window sash. If a smaller box is wanted, a flower pot may be used, and covered with a single pane of glass. The glass covering is not absolutely essential, but it will be found that the cuttings will root much more satisfactorily when it is used.

The tender shoots which spring up around the parent plant in early spring should be removed and placed in the sand, which should be kept moist at all times, and should be shaded for the first weeks after the cuttings are placed. In a few weeks the cuttings should be well rooted, after which they should be placed in a coldframe until time to plant them in the open ground. If no coldframe is available, they may be placed in some sheltered position until danger of severe cold has passed.

While it was my purpose to discuss, in this short article, mainly the growing of the large-flowering varieties of plants, there are doubtless many who prefer the pompons, which require decidedly less care and attention. There should always be a place in every flower garden for at least a few of these small-flowering kinds; they are so pretty, and so very easily grown.

The same method of cultivation and growth is applicable to the pompons as to the large-flowering type, except that they should not be disbudded and instead of growing a single stalk for a single flower, the plant should have the buds pinched out frequently during the growing season to induce it to bunch and produce numerous blooms.

Fresh .. Tender .. Tasty ..
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BUT don't let them dry up under the scorching midsummer sun! As you look proudly along the trig rows of green sprouts pushing up through the moist earth, remember that the succulence of your future salads, the tenderness and flavor of your corn and peas and beans, depends on keeping them growing steadily—don't let dry weather check them!

A goodly length of Goodrich Garden Hose is, really, just as essential to success as a good hoe! Remember that one thorough soaking of the soil is worth three or four superficial sprinklings—get enough hose to reach every inch of your garden!

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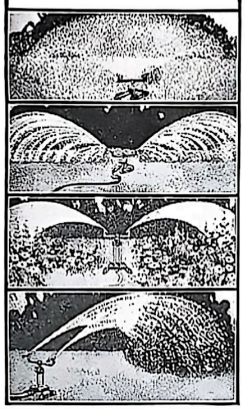

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☐ Rain King Hose Coupler, 60c each

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Homes of Outstanding American Women

Continued from page 11

and I made them individual and comfortable, and they were much better than a hotel. But I still had to take my meals outside, and I grew terribly tired of eating with my hat on! Meanwhile I had become greatly attached to this house, so I finally decided that I must continue to live in it, but that I must have it all to myself, a real home, with housekeeping and all that goes with it.

"When this decision was made, and the way cleared for fulfilling my desire, I worked fast. Practically all the necessary extra furnishings—of course I already had those I had used on the second floor—were secured in two days! I knew exactly what I wanted, and went out and bought it. I was helped by a friend with experience in interior decorating, but the ultimate choice in every case rested with me. I should never be willing to have anyone take that from me in regard to my home.

"I have enjoyed my housekeeping even more than I expected to. I have a Filipino houseboy who stays here all the time, and his brother, who is a student at George Washington University, and comes here for 'part time.' We have to plan a little around his studies. I don't mind at all. I like it. I make my own bed every morning before I go over to the League headquarters, immediately after breakfast, and I love to sew; I plan to achieve at least one exquisite and significant piece of needlework every year. I am in my office practically all the morning, but I get home for lunch, and often I bring friends with me. In the afternoon I work again, but there is always this little home waiting for me at the end of the day. . . ."

Miss Sherwin said all this with the sincerity and enthusiasm of a born housekeeper. It was with the same sincerity and enthusiasm that she spoke of her feeling for beauty.

"I think one of the greatest things my Alma Mater, Wellesley, did for me was to give me a feeling for line and color and form. I enjoy a beautifully modulated voice, an artistic arrangement of words, but most of my pleasure comes from sight rather than sound. Above all, the sight of loveliness in my home and garden."

SHE offered to show me the rest of the house, and I accepted the offer with alacrity. The dining-room, leading from the drawing-room, has the same curtains of yellow brocade, on the floor a plain yellow rug. The mantel, like that of the drawing-room, is of black marble, and above it hangs a rare Audubon print. The handsome old furniture is simple of line and arrangement, there are a few pieces of fine old silver in evidence. But the same restraint, the same talent for selection, the same peaceful spotlessness that permeates the drawing-room characterizes this room also.

Beyond the dining-room are a little porch, where meals may be eaten in mild weather, and the convenient kitchen quarters; and passing from these under a beautiful white arch to the entrance hall, where a jar of the famous ivy surmounts the artistically concealed radiator, we went up the long and graceful stairway to the second story. Miss Sherwin's bed-

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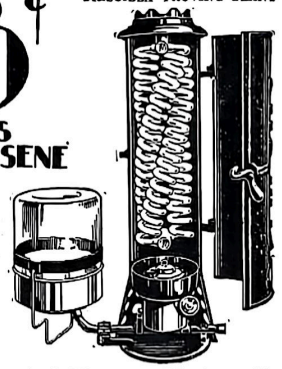

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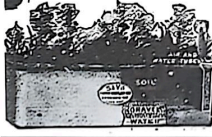

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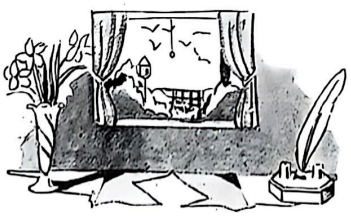
room, containing a handsome old "sleigh" bed, and other antique treasures, and her bathroom, are at the rear; in front are a small room for Miss Sherwin's private secretary, its window built out to form a small conservatory, and a larger room, which is Miss Sherwin's own study. Blue is the predominating color here—a beautiful blue Chinese rug, blue draperies over the cream net curtains at the windows, blue tints in the priceless Japanese tapestry over the mantel. The walls are lined with books, and near Miss Sherwin's desk a huge atlas is folded open on a tall stand under an old print of The Towers of Oxford. ("I love maps!" she tells me in parenthesis.) The view from this room is one of the finest I have seen in Washington, looking, as it does, directly across to the imposing State, War, and Navy Building, and beyond this to the Ellipse and the White House grounds.

BUT of all the charming rooms in this charming house, none seemed to me quite so enchanting as the larger of the two guest rooms on the third floor, a typical New England chamber of a century ago. Curtains of gaily-flowered calico hung at the windows; gaily-flowered hooked rugs lay on the floor; a narrow, shallow fireplace, with a small sofa drawn cosily up beside it, was surmounted by slim, shining brass candlesticks. The low four-poster was of pine; the slim dresser and the highboy of maple; near the door stood a rush "wagon seat," formerly used for the children to sit in when the "carryall" took the family to church; in one corner stood an old and graceful desk, which is reputed to contain twelve secret drawers.

"We have found eleven of them," Miss Sherwin told me, "the twelfth we are still seeking."

When I had left her, and the little house which she has made into such a lovely and peaceful home, and was driving slowly away thru the storm, I kept thinking about that beautiful desk with its secret drawers, and the drawer which was still unfound. It all seemed to me strangely symbolical of Miss Sherwin herself. She might so easily have accepted her life just as it appeared, the easy, sheltered life of the rich woman of leisure, with the obvious and evident pleasures that were hers to command, with her wealth and her position and her culture. Instead, she tried to discover something more; she kept seeking for channels of service which she might not have found if she had not been willing to search for them; and she is still looking for more, still feeling that there may be others that have eluded her, still longing to make her service perfect and complete. . . .

And, as she pursues her quest, she finds time to "plant and prune and foster, to tend and to improve," all along the way.



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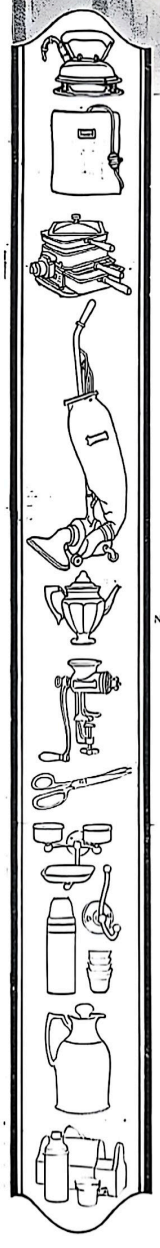

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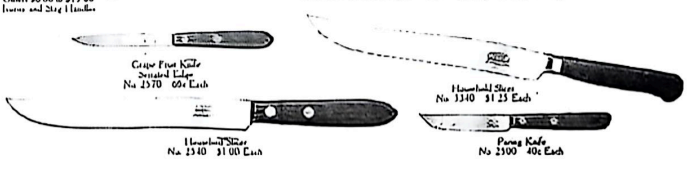

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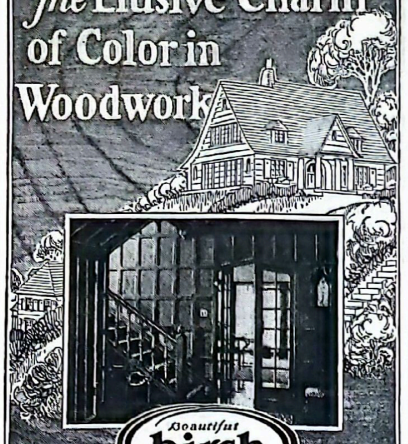

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A Garden of Shade-Loving Plants

Continued from page 15

prairie birdfoot violets, that must have acid soil and some sunlight.

The dogwoods are hardy ornamental shrubs with handsome foliage that takes on a brilliant fall coloring. They grow nearly as well in shady places and under large trees as in the sun, and produce attractive flowers and fruits. There are many varieties, *Cornus alternifolia, Cornus mas, Cornus florida,* and *Cornus racemosa,* the latter being native here in Iowa. Under its arching branches thick plantings of bloodroot, bedstraw, *Hepatica triloba* (pink and blue), maidenhair ferns and violets are gay in early spring. In front of it are groups of pink tulips planted with our wild *Phlox divaricata* (erroneously known as wild sweet william), lavender tulips, and farther on salmon-pink tulips, Clara Butt, with *Polemoneum reptans* or Jacob's Ladder, sometimes called Greek Valerian. This polemoneum is a beautiful border plant for shaded locations, being literally covered with little blue bells at tulip time, and later in the summer putting forth new foliage that is neat and pretty.

IN this shaded border is a group of five old-fashioned bleeding hearts (*Dicentra spectabile*) that combines nicely with the tulips Valentine, Erguste and Dream. Violets in variety also make a nice combination with bleeding hearts. As the foliage of this lovely old plant dies down thru the summer, it is well to have day lilies (*Funkias*) planted very close, as they do not push thru until later in the spring and by summer their foliage spreads out over much ground, thereby covering barren spaces left by early spring plants. The day lily is indispensable, being one of the plants that is really shade loving. There are some ten or twelve varieties of day lilies, the most glorious one being *Funkia subcordata grandiflora,* producing great white fragrant tubular flowers in spikes above the mound of handsome foliage. It is effective along the edge of shrubbery or along walks as well as in the flower border. *Funkia coerulea, lancifolia* and *ovata* produce spikes of blue lilies that are very pretty when planted with the annual marigold, Orange King, an excellent annual for semi-shade.

Another lovely picture in our border is Mrs. Elliott's hybrid pink columbine planted with *Thalictrum glaucum* and Clara Butt tulips. The gray foliage of this variety of thalictrum is just right for the salmon pink tulips. Iris Isolene and Princess Beatrice are also attractive in this group. Farther on, bluebells, giant trilliums and grape hyacinths, Heavenly Blue, make a lovely spring picture. As the foliage of these spring harbingers dies down, *Funkia sieboldi* is planted among them and spreads its silvery gray foliage out over the sleeping bulbs. The flowers of this last variety of funkia are of a soft shade of blue and are pretty with a touch of salmon pink, if you are able in semi-shade to tease a blossom from an old-fashioned garden pink or hardy phlox "Rhinelander." The annual nicotiana hybrids in salmon pink shades are also lovely with this lily and will bloom in the shade.

In another part of the shaded border

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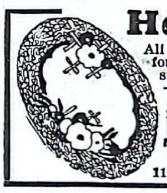

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just back of the bird bath, the fernleaved elderberry, our own tame elderberry, and cutleaved sumach grow in a riotously happy fashion much to the delight of bird visitors who can eat and drink to their hearts' content. Below the bird bath where it is usually damp from the splashing water grow our native ginger root, Dutchman's breeches, white watercress, violets and the wild bleeding heart (*Dicentra eximia*), valuable for its fernlike foliage that is green until frost and seldom a day without a few blossoms.

A SHRUB somewhat new to us here in Iowa is the witch hazel (*Hamamelis japonica*), growing about eight feet tall. For three years it has grown for us under the most trying conditions of two hours' sunlight, the house foundation and eavestrough on one side and sidewalk within two feet on the other side. The yellow threadlike flowers that appear upon the branches in November after the colorful foliage has dropped give it a unique appearance. The blossoms seem utterly immune to our heavy frosts and are followed by peculiar little brown seedpods. This shrub could be used in the flower border with a planting of yellow chrysanthemums and astilbe or goatsbeard in front of it. Here again with this perennial are many varieties, ranging in color from white to shell pink, salmon pink, magenta and deep rose. In height it can be had from the twelve inch *Astilbe arendsi* with silvery pink plumes that are so heavenly with the light blue *Delphinium belladona*, (the latter will bloom in the shade if given lime) to *Salland* astilbe, six feet. *Spirea palmata elegans*, three feet with graceful pink plumes is charming for the waterside.

Where high shrubs are not wanted, *Hydrangea arborescens* is graceful in flower, form and foliage, brightening a shaded area from the latter part of June until frost. Before it, blue spikes of our native *Campanula americana*, clusters of wild bleeding heart, white spikes of snakeroot, (*Cimicifuga racemosa*), and groups of the Japanese gold banded lily (*Lilium auratum*) are lovely. Where tall perennial planting is desired, the plumed poppy (*Bocconia subcordata*) with its handsome gray green foliage and plumy heads furnishes a pleasing background for groups of *Lilium speciosum rubrum*. Most of the garden lilies will bloom in semi-shade, perfect drainage of stone or sharp sand being their main requirement. The apricot *Lilium henryi* has bloomed for us faithfully for four years with not more than two or three hours of sunlight each day. The fall perennial monkshood (*Aconitum autumnale* and *napellus*) should have its place in the shaded border. The deep blue helmet shaped flowers are striking with the white *Anemone japonica*, asters and rose chrysanthemums.

There are many other valuable shade loving plants, hardy elsewhere such as rhododendron, mountain laurel, white kerria, hobblebush, azalea and weigelia. Once in a while we hear of a gardener here in the middlewest who has successfully grown one of these beauties, but our alternate freezing and thawing combined with soil conditions is usually death to them.

While the shaded garden after tulip and iris season cannot be a glow of color, its variety of cool green foliage and pleasant splashes of color here and there have a quiet and peaceful charm that can be enjoyed on the hottest day.

Days that Would be Gone Forever

had I not taken the one precaution that keeps them alive today

"WHAT a thrill I got as I watched my two boys play their first games of baseball.

"Whenever they'd hit the ball, or catch a fly, or fan a batter, I was so proud I wished the whole world could be there to see them. Those were the happy days.

"But how quickly they passed. Overnight my boys became 'young men.' It was no longer baseball—it was golf and tennis. I watched them still . . . with all the intense interest of a father . . . but it just wasn't the same.

"I began to realize then how wonderful those baseball days had been . . . the days when they were 'just kids.' And I realized another thing also: those snapshots I had taken were now more precious than rubies. Year after year they keep the old days alive. Incidents that otherwise would have faded from my memory, I am now able to recall clearly and joyfully."

* * *

Some day you will want to remember your children as they used to be. When that day comes are you going to regret that you didn't take more snapshots? Are you going to be one of the unfortunate few who have no pictures to remind them of life's most precious moments?

How is your youngster going to feel later on when his friends proudly display snapshots of their childhood—will he have to make excuses for *you?*

As for not owning a Kodak . . . really, there's no excuse for it. Every day of your life, probably, you pass stores that sell them. The cost is whatever you want to pay. There's a genuine Eastman camera, the Brownie, as low as $2, and Kodaks from $5 up.

And every Eastman camera makes excellent snapshots. Particularly the Modern Kodaks. Their lenses are so fast that you don't have to wait for sunshine. Rain or shine, winter or summer, indoors or out, everyone can take good pictures with these marvelous new Kodaks.

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Wisdom in the Wild

Continued from page 26

discover his clever method. Those corms burn like fire! Indians used to overcome this difficulty by "boiling the bite out," as they said, and then the corms became good to eat. That is the reason you sometimes hear Jack's savings called Indian turnip.

There are two flowers in the garden that carry life insurance in the same way that Jack does. They are the crocus and the gladiolus. No plant probably gets better interest on its deposits than the gladiolus, if the soil and the conditions are favorable. For, besides several new corms growing on top of the old ones each year, you will find tiny cormels attached to each old corm. These can be removed and planted separately, and in two or three years, they, too, will be ready to bloom.

That bluebird of spring, the crocus, on the other hand, is not taken up and reset each year. Therefore, when crocus corms are first put into the ground, they should be planted deep. Otherwise, the new corms, growing directly on top of the old ones year after year, may in time push the whole plant out of the ground.

Plants as Old-Time "Doctors"

A VERY long time ago, wild flowers and trees and other plants were as important to folks as medicines as they were in any other way. When a person became ill, it was to the plants growing in woods and fields that his friends turned to find the remedies they thought would be suitable. Almost everyone in the Old World who owned his own place had an herb garden to which he could go for some root or flower or leaf with which to make a "dose" when the children were sick. And until a short time ago, nearly every grandmother in this country knew many plants from which to brew the proper drinks for whatever ailed their grand-offspring, whether it was mumps or "worms" or "growing pains."

The belief in the power of plants to cure was so strong in the old days that for centuries folks thought them to possess almost human virtues. A curious idea was held, even by men who were thought to be learned. Plants showed by their shapes or their colors, they believed, the parts of the body or the diseases they were destined to cure.

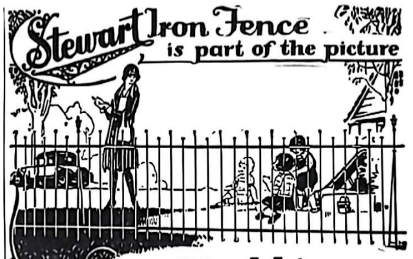
Certain plants with yellow flowers were thought to be good for jaundice, for does not a person's skin turn yellow when affected with that disease? Any plant with swellings at the joints must be good for a gouty toe.

Hair cap moss, which you can find in the woods, has a delicate hair-like fringe all over it when it fruits in the summer time. This moss was steeped in water and used as a hair tonic. It has never been recorded, however, whether or not this plant was successful in growing two spears of hair where no hair grew before!

Spiderwort has a dainty blue blossom, but its leaves have a spidery appearance. In some mysterious way this plant was believed to heal the bite of an equally mysterious "Great Spider" which, no doubt, few had ever seen.

If you will take a look at hepatica, one of the earliest flowers of spring, you will

Stewart Iron Fence is part of the picture



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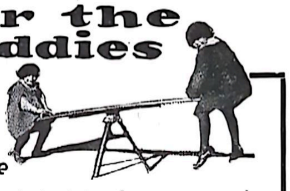

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find that its leaves always have three lobes. These leaves were thought to resemble the liver in their shape, and so the plant was considered a sure cure for all complaints of that member.

A walnut is shaped like a human head. When cracked, the two halves of the meat look much like the parts of the human brain. Therefore, quoth the wise men, walnuts are good for ailments of the head, either outside or in!

Today in China natives pay high prices for ginseng, and they use it for treating every kind of sickness known to their people, in much the same way as our ancestors used it long ago. There is no doubt that the plant has some worth as medicine. However, the belief in its merits has come down thru the ages in another way. The roots of the ginseng are shaped like the human body. What better sign, according to the old ideas, could there be that the plant had power to cure all ailments of mankind!

Many of the most valuable medicines now in use come from plants in some form. It is splendid that, instead of the belief in plant magic, men have learned the real science of their value so that trained physicians can use them in time of need. On the other hand, today, mothers and fathers know more about keeping their boys and girls strong and well on vegetables and fruits and other good foods, so that bitter plant-brews and "teas" are no longer necessary as a part of the family fare.

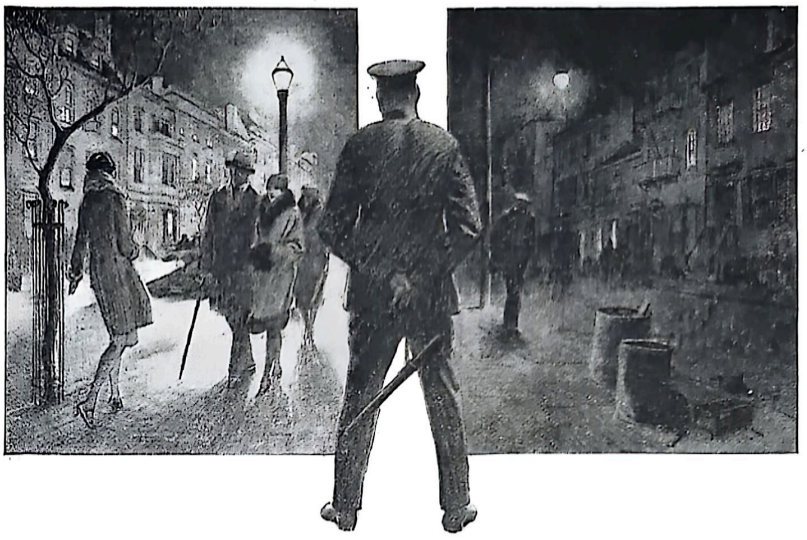
A Flower with Disappearing Seeds

A PLANT lover one day discovered a pink lady slipper growing in her woods. Since pink lady slippers are rare blossoms, indeed, she decided to take the seeds when they were ripe and plant them in another part of the grounds. Thus would she help more pink lady slippers to grow.

The plan was splendid, but at that time the owner did not know the cunning ways of her lady slipper plant. Patiently she waited for the seeds to ripen, and then one day, thinking that the time must be up, she went to gather them. Imagine her surprise to find not a pod nor a seed left on the plant! Nor was there a sign of them on the grass or on the ground. Willy-nilly, it seemed, the lady slipper's offspring had been whisked away.

What happened to the pink lady slipper seeds takes place in the lives of all the several kinds of lady slippers of the northern states. Even the smallest of these beautiful country cousins of the hothouse orchids carry in their seed baskets some twenty thousand seeds about the size of fine bits of sawdust. When it is time for the seeds to be on their way, the basket bursts open on all sides, and seeds, basket, and all are scattered far and wide. Very few of the many thousand seeds grow, however, it has been found, and so Mother Nature has provided many in the hope that a few will become new plants.

The colors of the lady slippers range from the pinkish-purple and white of the beautiful moccasin flower to the pink and the yellows of the other varieties. All of them love the cool moist woods and bogs, and only once in a while can they be coaxed to feel at home in garden soil; however, the moccasin flower and the yellow lady slipper can sometimes be made happy there. (*Cont. on page 120*



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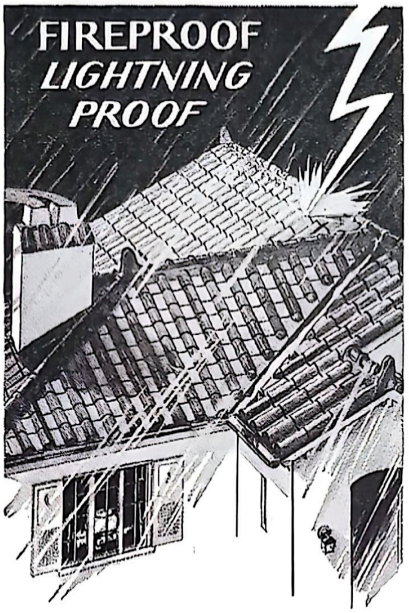

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Perhaps you have lady slippers in your wild flower garden and would like to try growing some more from seed. While the seed pods are still green, carefully tie a small paper sack over each, so that the tiny seeds cannot lose out. When the pods burst, the seeds will not scatter, and you can plant them where you wish. Possibly you can outdo Mother Nature in helping some of them to grow.

Minnesota has been the first to bring honor to one of these unusual plants by making the moccasin flower her state blossom. It happened that in 1893 when the states were preparing special exhibits at the World's Fair in Chicago, Minnesota's workers felt the need of some kind of emblem to make their showing complete. The moccasin flower was decided upon to represent Minnesota's woods and Indian trails, and the state legislature adopted it.

A Miniature Rockery

Continued from page 70

ready to plant them. Nursery orders often arrive in the middle of a rainy spell or when the cook leaves or the baby has measles, any of which dampen the ardor of the best of feminine gardeners.

Of course, no spring-blooming plants will bloom the first year from seed, and there are many other rock plants one must have. These may be begged from kind friends, if one is fortunate, or bought from a reliable nursery.

I have an impossible city back yard, high board fence and all. One side has a narrow border, about twenty feet long and two feet wide, extending along said board fence, in which nothing ever could or would grow. But I also have a lot of bricks, many of them quite dark from age. With the aid of my mother and a neighbor's boy, I now have a miniature rock and wall garden! We bought some sedums, three or four kinds of houseleeks, a couple of plants of thyme, and some *Phlox subulata*, and set to work early in April. Beginning at the bottom of the wall, we built brick on brick, filling in the spaces between the bricks, as well as back to the board fence, with good soil and some stones. As we built, we put in pieces of plants, here a sedum, there some thyme, and so on, until we reached a height of eighteen inches. As each row of brick was placed a bit nearer the fence, with the correct backward slant to the brick for drainage, the width of soil on the top of the wall is about one foot. In this flat top we planted some iris from another part of the garden, ferns and lilies-of-the-valley at the shady end, and a *Clematis paniculata* which, by aid of chicken-wire, covers much of the undesirable fence. As soon as the baby plants could be put outdoors, they were added in the fence and along the top of the wall.

That fall, dozens of little bulbs, snowdrops, scillas and the like, went into the wall top, so that the next spring, it was a carpet of white snowdrops followed by the blue of scillas, the pink phlox, the white of arabis, cerastium and iberis, and the yellow of alyssum.

The wall top is a great experiment station, and with such excellent drainage, much succeeds there that fails elsewhere. The latest crop is wallflowers, successfully wintered and blooming next spring. They were protected by many leaves at the root and covered with inverted quart jars.

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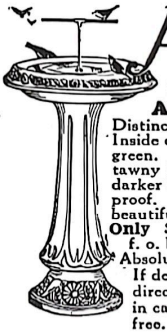

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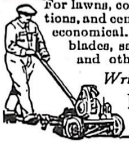

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News Notes From Garden Clubs

Continued from page 29

THE happy idea of a school garden club was conceived four years ago by a group of Parent-Teachers Association members in Fairview, a small village just outside of Cleveland, Ohio. The gardens and interest in them have steadily increased until this past season there were 180 gardens worthy of prizes, and many of them would do justice to a landscape architect.

"We had a committee of fifteen men and women who enjoy boys and girls, also gardens. One, a teacher, took care of the entries in the spring and any other matters within the school. The rest of the committee was divided into groups of two and given certain territory to visit. All gardens were inspected in this way in July and August and graded from 1 to 10. The first week in September, all of the committee together visited every garden that graded nine or ten and decided on the prize winners.

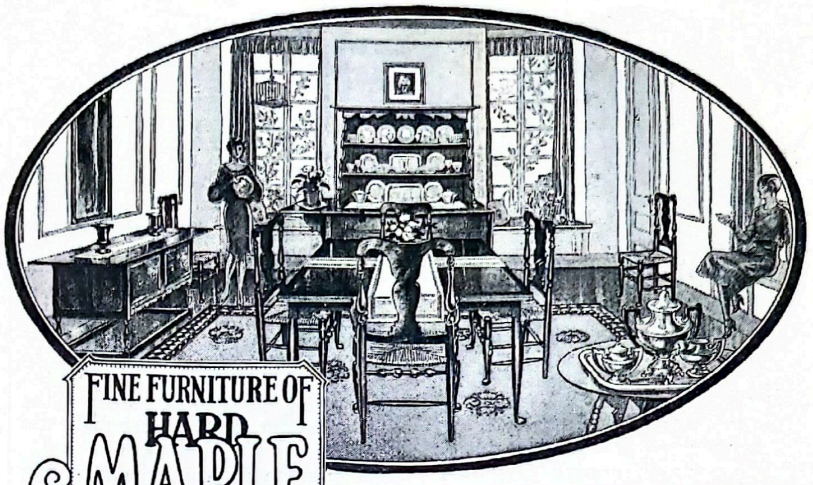
"The nine grades in the schools are divided into groups, three grades in a group. These groups are again divided into boys and girls making six groups in all. First, second and third prizes for flowers, vegetables and combination gardens were awarded in each group. This made fifty-four money prizes of $3, $2 and $1. All other gardens cared for thruout the season won a box of candy for the gardener.

"The second Saturday in September an exhibit was held in the school auditorium and the stage banked with flowers and vegetables from the gardens made a bower of beauty. All exhibits were marked with the growers' names and were pointed out with great pride to parents and friends. A short program and awarding of prizes made an enjoyable evening.

"Financing the garden club is taken care of with a plant sale in May of each year. When started, this was a sort of plant exchange. Surplus shrubs and flowers were donated but it has grown so that it is looked forward to by people for miles around. Donations still come in but shrubs, evergreens and potted plants are sold on commission.

"Fortunately there are a great many greenhouses and nurseries in our vicinity ready to help us in our good work. This sale of plants benefits our community in two ways, for every plant sold helps to beautify the homes and grounds at small expense, and our profit goes to reward and encourage our boys and girls in their work. The vegetables the children raise help to feed many families and thus promote health.

"Our club has brought the home and school into closer relationship and has helped to keep 180 children off the street. The youngsters are learning not to be afraid of work and best of all a 'garden habit' is being formed in the lives of 180 future citizens."



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But you really must see this Maple furniture at leading stores to appreciate its indescribable charm. Interior decorators, who have viewed it, predict that Hard Maple furniture—both period and modern—will attain new heights of deserved popularity. A vogue that will be perpetuated by the sterling qualities and stability of this premier cabinet-wood.

An interesting booklet upon the Maple Furniture of today and yesterday is just coming off the presses. Fully illustrated with several plates showing the marvelous new color finishes on this premier cabinet-wood. Shall we reserve a copy for you?

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Your order for these bulbs will be your personal import order. On July 1, all our advance orders are taken to Holland to be filled with "top quality" bulbs from the new crop. Our prices, which include only cost, plus a commission or service charge, are therefore good only for orders that reach us before July 1. Over 16,000 clients annually act on this plan, including some whose gardens are famous.

***100 bulbs* $3.50**
50 bulbs $1.90
1000 bulbs $33.50-500 bulbs at the 1000 rate

Bulbs will come to you early in the autumn, at the proper time for planting, with clear directions. They will be shipped carriage prepaid if remittance accompanies the order. With charge orders, please send reference.

Colors for Every Garden

Choose from the colors as listed below. Order as many bulbs as you wish, of the colors preferred. Each color will be packed separately and labeled with name and color.

Vivid Rose	Crimson	Rosy Carmine
Violet Rose	Dazzling Vermilion	Cherry Red
Salmon Rose	Scarlet	Oxblood Red
Deep Pink	Orange Scarlet	Purple Maroon
Silvery Pink	Salmon Scarlet	Lavender Violet

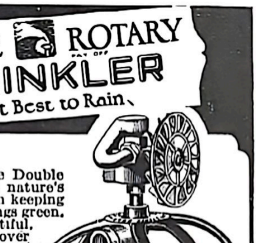
Bright Rose with Blush Margin
Lilac Rose edged with silver
Lavender margined with yellow
Buff tinged with gold
Bright Canary Yellow

Our Complete Catalog lists and describes over 600 different bulbs, including fine assortments of Lilies, Peonies, Iris, etc. Supreme quality at reasonable cost. Everything guaranteed to bring satisfactory results. Copy mailed on request.

Schenley Gardens Inc.

CHESWICK, PA.

DOUBLE ROTARY SPRINKLER
Next Best to Rain



You'll find the Double Rotary Sprinkler nature's greatest aid in keeping your growing things green, healthy and beautiful. Sprinkles gently over a circular area up to 5,000 square feet. Requires no attention. Has adjustable nozzle and skid base. Will serve for years.

Order on Trial—If after 10 days' trial you are not thoroughly satisfied, your money will be promptly refunded. Price $12.50 postpaid. Literature on request. **Dealers:** Write for special proposition.

DOUBLE ROTARY SPRINKLER CO.
107 Coca Cola Bldg. Kansas City, Mo.

Your Plants Must Be Fed

Continued from page 24

high as a ton to the 1,000 square feet the rate of application of ammonium sulphate or nitrate of soda is about two to three pounds to the same area. The solubility is so great that it becomes necessary to make applications only after the plants have become sufficiently strong and established to enable them to absorb the material as it is given. In other words it is a waste of effort and money to apply commercial nitrogenous substances in the fall of the year or even early in the spring. They will be leached out of the soil, long before the plants can make use of them.

The question arises at once as to why we do not make use of such fertilizers in the entirety instead of bothering with the various forms of animal manures, even tho they be shredded and dried. In spite of the comparatively small fertilizing content of manures, they have a great deal of value. They add the necessary organic matter or humus to the soil. They better the texture of the soil. They increase its waterholding capacity. They add the necessary bacteria which are useful in changing the various compounds and making them of use to the plant. Finally the manures help in releasing the minerals from the soil for the use of plants as food. To make an actual comparison between the constituents of manures and commercial fertilizers it might be well to realize that ten tons of manure are necessary to be equivalent to 333 pounds of nitrate of soda, or 52 pounds of phosphoric acid, or 416 pounds of potash. The high cost of shredded manure and the comparatively poor fertilizing value make its use undesirable. Under this category may be placed sheep and cattle shredded manures which seem to be so dear to the average gardener. At $30 a ton this material is ten times as costly as commercial fertilizers, when actual value and results are considered. It must also be added that half of the actual fertilizing value of these materials is lost in leaching, before being shredded.

PHOSPHORUS in manures runs about one-tenth percent and as such is of but little benefit. Since most of our soils are deficient in this element in available form, applications must be made yearly to keep the supply. The common forms in which phosphorus is sold are bone phosphate or bonemeal and acid phosphate. The former comes in strength of 20 percent while the latter may range from 16 percent to 45 percent. Acid phosphate is preferable to bonemeal in every case where fairly quick effects are desired. Bonemeal should be applied only in the fall, to give it a chance to rot down and become useful. Acid phosphate should be applied in the spring. The rate of application is about 10 to 20 pounds to 1,000 square feet. The 16 percent form of acid phosphate is desirable. The notion that bonemeal is the better of the two is fallaceous and in addition the acid phosphate is cheaper and more agreeable to handle.

Potash comes in the form of hardwood ashes, muriate or sulphate of potash and manure. In manure the percentage is about five-tenths of one percent which

A new sprinkler specially designed to water large trees at one operation. It saves time, labor and money when compared to other haphazard methods of watering.

Sold by all leading seed houses or direct from the manufacturer.

$25.00 F. O. B.
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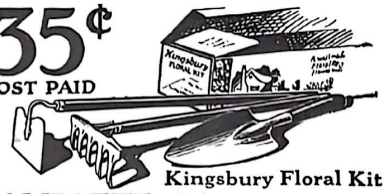
Write for descriptive pamphlet on care of trees.

35¢ POST PAID



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MILDRED RYAN, *Bloomfield Gardens.* **Colfax, Ia.**

is hardly sufficient for any crops. Wood ashes furnish a good supply but they must be unleached, else all the potash will be found gone and value lost. Either of the commercial forms is desirable. The usual application is five pounds to every 1,000 square feet. This application should be made in the spring. Most of our clay soils are fairly well supplied with the material and no applications will be found necessary and if needed, only in small quantities.

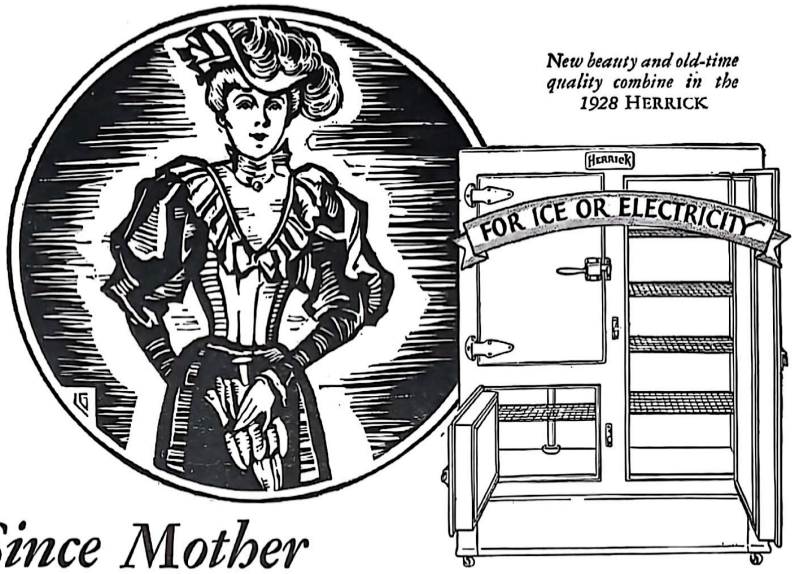
For the gardener who has small spaces to deal with a good grade of commercial fertilizer will answer the purpose best. A complete fertilizer applied several times during the season will bring desirable results. In general, the practice of manuring the land should consist of a coat of animal manure in the fall which might well be spaded in at once. If manure is not available a cover crop of rye may be seeded down in the fall and spaded under in the spring. Then in the spring apply the commercial fertilizer. The analysis of the latter will depend upon the kind of plants grown. Some require greater proportions of one element than others. Below are a few recommendations for individual crops.

Roses—In the spring apply one pound of acid phosphate to every 25 square feet of rose bed. During the season of growth nitrogen should be applied in liquid form dissolving three ounces of nitrate of soda to five gallons of water and applying early in the season once a week for three or four weeks. This amount will cover thirty feet of bed. Potash may be applied best also in liquid form using one tablespoon of potassium sulphate to four gallons of water. If applied dry, a handful to a plant will not be too much. A winter mulch of manure will serve not only as protection but will also add some fertilizing elements. This should be worked into the soil during spring. In heavy soils applications of lime every two years will be found necessary. Peat moss has been found very beneficial as a summer mulch for roses. It keeps weeds down, produces a better effect and when worked into the soil becomes almost as useful as manure in ameliorating the texture. One bale, which costs about $4 delivered, will cover 400 square feet one inch deep.

Gladiolus—The ground may be prepared in the fall as suggested above. In the spring before planting, scatter a complete commercial fertilizer in the rows at the rate of three pounds to every fifty feet of row, cover with soil and then plant the bulbs. A fertilizer strong in phosphorus is desirable. We have found that acid phosphate added in this manner will not only hasten blooming but will produce a greater amount of good bulbs for next season. Applications of nitrogenous fertilizers should be deferred until the spikes begin to show and then an application of one pound of nitrate of soda to every 50 feet of row may be found beneficial. Ammonium sulphate is also useful and in fact is preferred upon soils which are sweet.

Peonies and Dahlias—These are grouped together because they are similar in their high requirements for potash. In addition to manuring the soil, a fertilizer which contains 10 percent phosphoric acid and 10 percent potash is desirable in the spring. This will produce earlier flowers and make strong roots.

Perennials are a permanent crop and thoro preparation of the soil is essential



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HERRICK *Triplex Insulation*

Outside, the solid oak cabinet is a non-conductor of heat. Inside, the linings of spruce, plate glass, or porcelain on spruce are also non-conductors of heat. In between, is heavily packed MINERAL WOOL, rated by U. S. tests one of the world's best insulators. This results in a constant correct temperature and extra efficiency from ice or current.

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FUNGTROGEN acts like magic on mildewed roses and other flowers. Spray a thin, *invisible* film of Fungtrogen on diseased plants and almost overnight Mildew or Black Spot is under control. Easy to apply. By its use amateurs get professional results, larger blooms, sturdier plants. No discoloration.

Fungtrogen is highly concentrated, but easily soluble in water. Sprays perfectly without clogging nozzles.

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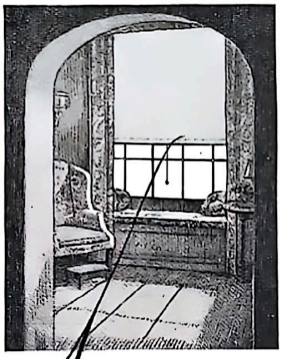

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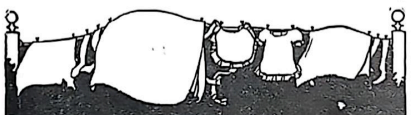
Makers of Hartshorn Shade Rollers



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before planting. Incorporation of manure in the fall with bonemeal will be found desirable. During the season of growth a good commercial fertilizer complete in its elements such as 4-12-4 will be found of use. The application should be made in the early months, so that growth may mature before winter sets in. No fertilization should be practiced after the middle of August. This applies to all permanent flowering plants.

Annuals require the same treatment but they are easier to handle since the ground may be prepared each year before the plants are set out. Altho in most cases the plants will produce some flowers without any fertilization to speak of, regular dosage will result in so much better bloom that you will wonder why it was not done before.

Shrubs and Trees—The fact that these are permanent is not a sign that they require no additional food every year. A mulch of manure in the fall, supplemented by a complete fertilizer twice a season at the rate of 10 pounds to every 1,000 square feet will be found beneficial. Large trees may receive two or three pounds per tree. The material should be worked in.

It must be remembered that the highly soluble nitrogenous fertilizers should be applied only during the growing season, in small doses and usually in liquid form. Small but frequent applications are much better than heavy doses at rare intervals. The complete fertilizers as well as phosphoric fertilizers should be applied in dry form. In all cases the material should be watered in after applications, or at least worked into the soil.

Refinishing Varnished Woodwork

Continued from page 88

with turpentine or benzine to brushing consistency; applied with a brush, and allowed to stand a few minutes until it commences to set, then wiped off across the grain with a cloth, rubbing vigorously and being sure to wipe clean. It should be allowed to dry overnight to harden thoroly.

In case the previous finish is badly checked or cracked two coats of varnish will generally be advisable. The first one magnifies the cracks and makes them look worse, but at the same time it fills them so that when the second coat is applied it almost entirely obscures the disfiguring cracks.

Where a dull or semi-dull finish is desired, it is obtained either by rubbing a gloss varnish with pumice stone and oil or by applying a flat or dull varnish. The rubbing method is very slow and tedious, and the majority of dull finish effects are produced thru the use of flat varnish. This is applied the same as any other varnish, except that it should always be shaken immediately before use. If too dull, a little gloss varnish may be added to give the desired lustre.

If it is desired to change the effect—as for instance from a natural pine or golden oak finish to brown mahogany or walnut which are now so popular—this may be accomplished by sandpapering the surface and applying a coat of varnish-stain, brown mahogany or walnut, sandpapering again very lightly and applying a finishing coat of clear varnish either gloss or dull finish as desired.

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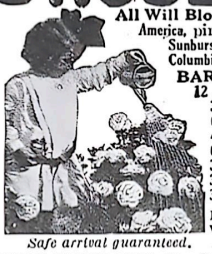
6 Monthly Blooming ROSES 50c



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America, pink; McArthur, crimson; Sunburst, yellow; Butterfly, var.; Columbia, red; Ophelia, white.

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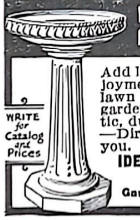

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The Evolution of An Old Hall Tree

Continued from page 86

desired size was procurable only in an old-fashioned hall tree of oak. Realizing the true worth of the glass, I purchased it at a very nominal price. This time the services of a carpenter were sought. First, the mirror was removed, leaving a plain frame 5½ inches wide. Turning the frame lengthwise I made a design for the top and bottom. As nearly as I could produce, it was a replica of the authentic early American mirrors. Several attempts were first made on paper before the outline was marked on the wood. This the carpenter sawed out with a band-saw leaving the frame on the sides 1½ inches wide. I was so pleased with the result of his work that I decided to try still another experiment. After tracing a quaint floral pattern on the center top of the mirror it was carefully carved out with a safety razor blade. With a little time and patience I was more than rewarded by the effect thus gained.

NOW it was ready for the finish which was three coats of mahogany varnish stain. After permitting it to dry thoroly I took off the shiny finish by rubbing it lightly with powdered pumice and oil, then waxing it. The mirror, a wonderfully clear one, was placed in the frame and hung with silk cords above the dressing table in front of which was placed a hand-hooked rug.

After completing the mirror my attention was given to the remaining part of the hall tree. Being plain, the lower part offered the inspiration for making a chest to be used for holding small daughter's toys. The back which once held the mirror was knocked off and the arms removed, leaving a chest 30 inches long, 15 inches wide and 16½ inches high. This was then given two coats of black brushing lacquer on the outside, and Chinese vermilion lacquer on the inside. Since the wood was already finished it took a lacquer much better than an unfinished surface would have done. And may I add that if the new brushing lacquers are used exactly according to directions they give splendid results. After the lacquer had dried, a Chinese scene of old temples, bridges, trees and mountains was painted in gold on the front and ends of the chest. (See page 37 of this issue.)

The gold paint was too bright so it was toned down by rubbing over it and wiping off quickly a paste made of burnt umber and linseed oil thinned with turpentine. We were so delighted with the finished product that it found a place in the living room where it not only held the baby's toys but served as a window seat as well. I have often thought that it could be placed by the fireside and used for a wood box if it were not otherwise needed.

Any number of ideas could be evolved in making the chest alone. It could be painted and decorated to lend itself to almost any decorative scheme one might prefer. For instance, it would be lovely for a nursery or child's room if it were enameled or lacquered in a soft old blue and decorated with little fat yellow ducks.

To be sure it took a certain amount of moral courage and imagination, but, finished and placed in their proper environment the mirror and chest are altogether useful and delightful as well.

Little flying feet—*safeguarded!*

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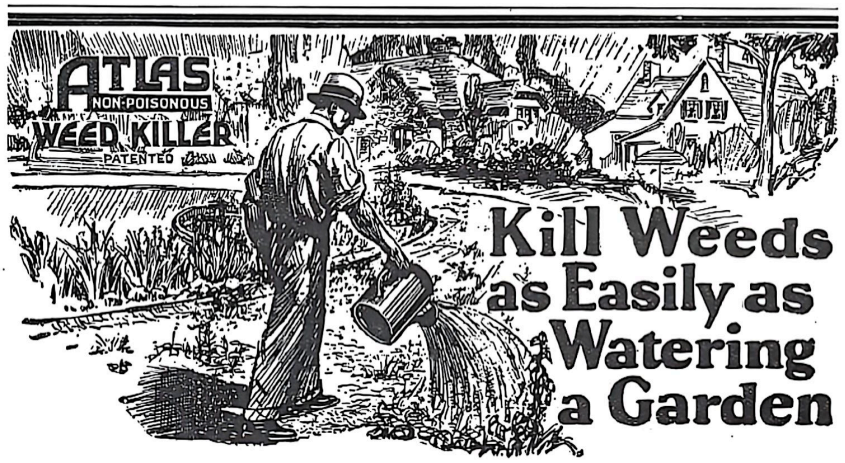

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Planting the Lily Pool

Continued from page 9

with the pool. A separate section should be made as a shallow pool and planted to resemble a miniature sphagnum bog in which may be grown the cotton grass, the pitcher plant, and in a little marshy spot to one side of it the marsh marigold, the showy lady's slipper, and the many other extremely interesting bog and marsh plants. Care, of course, should be used in introducing into this bog ground such weedy plants as the cat-tails, altho I personally would even be very strongly tempted to bring in what I think is one of the most luxurious foliage plants, the skunk cabbage. I wonder how many, if any, of you realize that very often the most interesting pools which we see at our flower shows have at least one of these so often most lowly and despised plants among the collection.

A trickling stream of water is always an added attraction and may well start in the rock garden to meander down thru it to form a small brook, but in reality a long narrow pool across the grass and thru a wild garden to the beginning of the pool itself. This offers an excuse for a miniature bridge in the form of a log or stepping stones, and of course, a clump of cat-tails, or some iris. But remember here as with the pool that the concrete work must be completely hidden and obscured. All too often this point is neglected in so-called naturalistic pools and the entire effect is ruined.

The pool itself should always have sufficient depth to allow for boxes or kegs, or a small amount of soil below the twelve inches of water. This, of course, may be reduced to six inches, but eight inches of water is necessary above the soil for the majority of water lilies. The soil should be made of at least one-third well rotted cow manure and the rest a good rich loam. This should be covered with a layer of clean coarse sand or gravel to keep it from being riled up by the fish and other animal inhabitants.

ALL pools, of course, are potential mosquito breeding ponds unless stocked with fish to keep them down. With the warm stagnant water we have in our pools there are relatively few fish which will survive so that whether we like them or not we must perforce resort to the goldfish or the more expensive tropical fish. This is an ideal opportunity, however, to interest our children in nature study and wild life, and we should, whenever possible, add to our collection of animals such forms as snails and tadpoles, which later, of course, in a year or two depending on the variety, will develop into frogs or toads. These two forms are excellent scavengers and cleaners. We may even put in some salamander, toad, or frog eggs and allow them to hatch and develop. I have never known the child who was not interested in that peculiar thing, the newt, so they may also be used. We may even include some small painted turtles, the ones so commonly found in our ponds. I would not advise, however, any of the aquatic insects such as dragon fly larva, water scorpions, water bugs, etc., for most of them are carniverous and will feed upon, or at least kill the goldfish.

Winter and freezing weather always brings a problem. The goldfish, if we

If I lived in the suburbs

there would be trips to and from the station along dark roads; there would be guests to see off in motor-cars; there would be dozens of situations where only a good flashlight would fill the bill.

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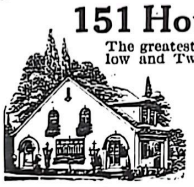

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are extremely humane, will be brought into the house. Unless we have some tender or tropical lilies the plants may be allowed to die back to the top of the soil and left in the pool. Of course, if we have a stream running into the pool we must have well established drains and it is well carefully to drain the pool into this or empty with a pail, and then fill it with leaves or straw. This not only gives a certain protection to our water lilies but also prevents probable injury to the pool from ice, altho if our pool is made with reinforced, sloping sides there is relatively little danger.

The final allure and beauty of any pool lies, however, in the water lilies. As one garden lover expressed it, "You may look upon them, enjoy them and have no desire to improve them for they are completely satisfying and perfect in their effect." And consequently those of you who have never had a water garden have missed a large part of the enjoyment obtained from your garden.

Water lilies are of two general classes, those which are hardy and may be left out of doors the year around and those which are tropical and consequently tender.

THE hardy lilies are especially fine for the small pool or for naturalizing in larger pools and warm quiet ponds. The smaller growing varieties may be used for either tubs or pools, while the larger and coarser ones should be used for the larger pools.

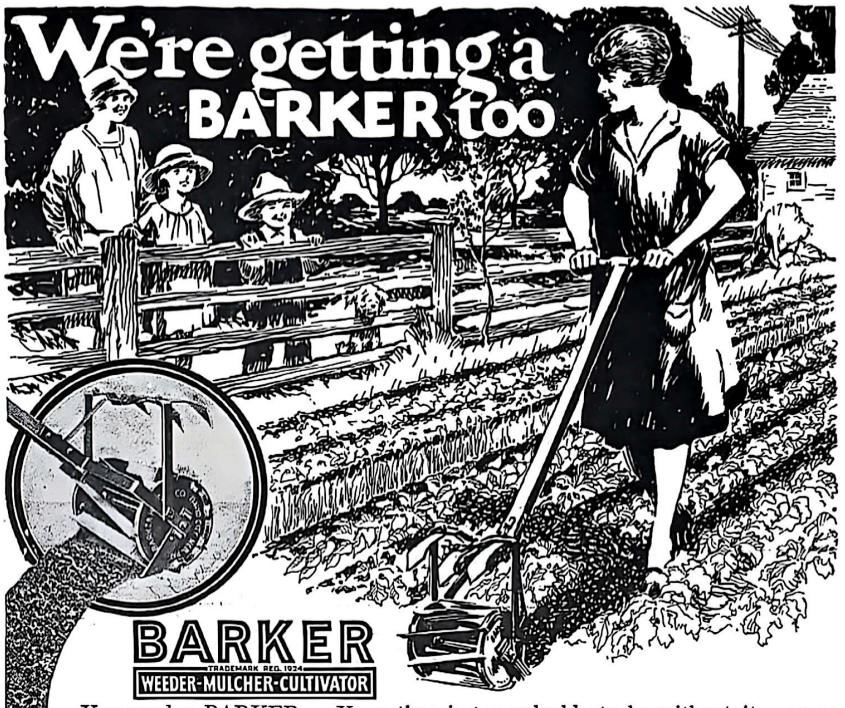
Planting may be done any time from the middle of April until late June. After that potted plants may be purchased and placed in the pool.

In planting the dormant roots the crown should be even with the top of the soil. Be careful and do not bury the crown. After a year or two the clump may become too large in which case it should be dug up in the early spring, divided, given new soil and replanted. I would suggest that the surplus be given to your local parks or naturalized in some nearby pond.

The selection of varieties will, of course, depend on one's pocketbook, but by all means buy the best you can afford. With the great amount of breeding that has been done with the water lilies it is now possible to obtain a wide variety of forms and colors of these hardy types, and like iris or peonies the fascination of a collection, provided one has the space, is irresistible. There are even pygmy forms for the tub or miniature pool. I always had one of these in my "overgrown birdbath" until a neighbor's water spaniel discovered it made an ideal place for a bath.

The tropical or tender water lilies are even more interesting than the hardy types. They come in blue, lavender, purple, red, white, and pink. Another interesting feature is that some bloom by day and others by night. Unlike the hardy lilies which have their blossoms on or just above the water, the tropical lilies usually hold their heads well above the water. One other advantage over the hardy lilies is that altho they start growing rather late in the season they bloom far later in the fall so actually give more flowers in the course of the season.

Altho we may take these tender plants into the cellar for the winter it is usually more nuisance than it is worth and we will get better results if we buy new plants each year. Since they require warm



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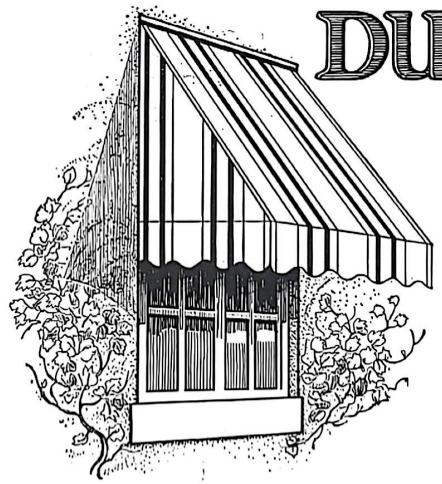

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water and a warm atmosphere they should not be put out until early June. Potted plants may be obtained and used any time from then until July and still secure satisfactory results.

There are so many varieties of these also at such a wide range of prices that it is difficult to suggest any particular ones. I would again suggest a perusal of the catalogs of the several big aquatic plant dealers, all of which will give much valuable information as well as inspiration.

There are many other aquatic plants such as the water hyacinth, the lotus, the arrowhead, the water plantain, and others. These should all be used carefully and in small quantities as they all possess that ability to grow which soon makes them obnoxious if unrestrained.

And so we see there is still time to build our pool, fill and plant it and even transplant some of our perennial flowers as well as annual seedlings around it. If this is done immediately we will have an effect by July 15th, that our friends and neighbors may well envy.

On with the pick, on with the shovel, in with the concrete, soil and water, and our dream pool is a reality. Let's plan it today and start it tomorrow.

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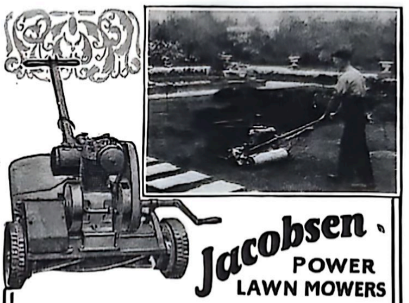
FERNS are among our most quiet and unobtrusive house plants. There is no vivid dash of color, no fragrance and no great demand for special favors, yet ferns can be classed with the really interesting plants of general cultivation. In fact, they are given to so many funny antics that they might often be dubbed the clowns of the plant world.

It is the uncertainty of ferns that makes them fascinating, for one never knows what impulse may seize them next. Any housewife who places a vining asparagus fern before the window will find herself with a fight on her hands all the time keeping the long fronds out of her lace curtains. This variety and lace curtains have a tremendous affinity for each other and the fronds will often reach out several feet for the mere privilege of twisting themselves in and out of the meshes.

I never see a growing sword fern that I do not stand in awe of its development. How a great frond can come from a little green ball and uncoil, day by day, into an enormous blade is as great a mystery as the Fourth-of-July snake that unrolls yards and yards of brown serpentine coils from a small white tablet that looks like headache medicine. It is an exceptional demonstration of the magic of nature.

There is one variety of fern that can never quite make up its mind what it wants to be. It begins its career in a simple manner, much like the ordinary sword fern. As it unfurls its leaves there is nothing to suggest that it will ever rise above the commonplace. In time, however, the observer will discover that one of the leaves has decided it wants to be twins, and like the amoeba, it just naturally grows to be two. About this time the plant begins to be interesting but later, when the twins become dissatisfied and show a disposition to become triplets and quadruplets, it is a temptation to sit up all night to see what the odd plant may do next. Not all the leaves have the



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desire to become whole families, however, and some of them remain in their single state.

THE most complete surprise any fern ever dared to perpetrate upon me was by an asparagus plumosus. It was given to me by a neighbor who was moving away, when it was a mere wisp of green planted in a small can. It seemed to like the family and as it continued to grow it was repeatedly transplanted to larger pots. Whenever the family found occasion to make a move to another town the fern was accorded the same consideration as the family cat and other unnecessary bric-a-brac and was taken along.

Every summer we would take our fern to some cool, shady nook on the north side of the house and leave it there until frost, where it would become rejuvenated for another season. In its twenty-first year when we found it necessary to remove it indoors, we discovered that it was covered with tiny white blossoms. Think of it! Old enough to vote and blooming for the first time! We had never dreamed that the thing could bloom! The blossoms were exquisite little things and when viewed under a magnifying glass they looked like white wax water lilies. The effect was really quite striking for a little flower was perched at the very end of each feathery process, and from the shape of the leaves it took no great amount of imagination to see in them miniature Christmas trees. It was all so unusual and unexpected that we could hardly believe it was possible. And strange to say, *Asparagus plumosus* has never repeated the joke and now we are wondering if we will be compelled to wait another twenty-one years for a similar demonstration.

There is nothing that suggests the clown in the maiden-hair, one of the daintiest and shyest of the ferns. It tucks itself away in a dark crevice along the bank of some stream that ripples a song to the flowers and trees along its course. It does not seem to like people for it usually grows in the most inaccessible places and if removed to artificial surroundings it seldom flourishes. It is much more likely to droop and die as if it were lonely for the song of its stream and the protection of its cool, dark crevice. Removing a maiden-hair from its native haunt gives one the feeling of having entered a hallowed sanctuary and stolen something precious.—Mary Alice Jones.

A fern unfolds its leaves

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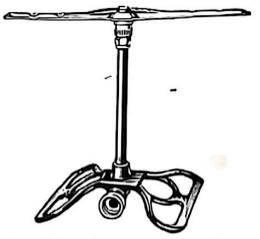

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Summerizing the Porch

Continued from page 48

can be developed in little time with real satisfaction. In many cases the applique design is stitched on by machine and then the raw edge covered with bias binding, the binding being stitched down by machine also. This gives a bold, heavy appearing applique which works up much more quickly than by hand and is very satisfactory.

There are some really interesting, lovely porches that I have in mind that I have seen. I recall a white house with green shutters, with the porch equipment in red and white one-inch square checked cretonne bound in black.

Another house in tan with white trimming had porch equipment made of blue overall denim, appliqued in yellow, violet, red, pale green, tangerine and black, with bindings of red.

Another porch had reseda green denim trimmed in flowered cretonne with colors of yellow, orange, white and green.

In selecting designs for porch decoration beware of anything that is either boudoir or parlor-like. The design should be bolder and the fabric coarser than you would ordinarily use inside the house. The colors should be more nearly pure in quality to keep step with nature's colors.

In making porch equipment use tie tapes wherever possible so that chair covers and cushions will be easily removed. In town or city it is a problem to keep porches clean and the equipment is best when it is made removable, thus insuring an inviting freshness.

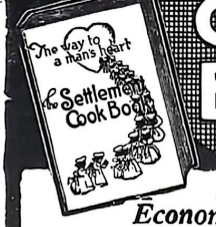
Remember in dressing up the porch for summer that paints and gay fabrics with braids and bindings are essential. Use paint generously and don't be afraid of colors—gay colors particularly, because you can get an interesting color effect by means of paint—and you do not have to take paint in when it rains! Therefore, more paint and less fabric.

Use gathers for fullness in swing and couch flounces rather than plaits, as plaits require time to adjust, and where the porch is small the equipment must be so that it can be jerked off quickly with the first hint of rain, and put back just as quickly.

A FRIEND of mine who felt that she could not just then buy a new grass rug for her porch made a sheet-like covering of denim with hems three inches wide at the outside edges. This she laid over her old rug, holding it to place at the four corners with heavy lead weight rings. The denim could be taken up and shaken, which was easier than sweeping, it could be taken in when it rained or when the porch needed washing, and it gave a clean, cozy effect to the porch at very little cost.

We had a rather large porch at our place at the lake last year, and we had no really attractive porch furniture. In order to get an inviting look, we used black paint—painted the swing, including its rusty chains, painted all the chairs, and in addition some small soap boxes for footstools. We also opened the sides of two larger boxes and painted them, these to hold magazines and books. We painted some old flower baskets and tin cans that held potted plants, making them violet in color, and then we bought some art color medallions in orange and black and pasted them on the pots.

The Settlement Cook Book



by Mrs. Simon Kander

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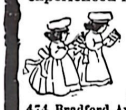

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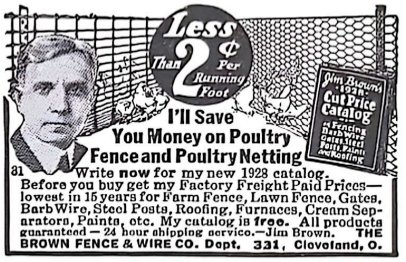

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CATALOG FREE

STRAND'S NURSERY
Box 40 Taylors Falls, Minn.

Our cushions were made of an inexpensive cotton suiting, tangerine in color, with bindings of reseda green twilled tape. We had orange and black Japanese lanterns which we used for festive occasions. Everyone who came exclaimed at our porch. It cost us some time for painting and left us with a backache or two, but the entire expense for dressing up our porch was less than ten dollars. The whole family were proud enough of it to undress it at the first drop of rain and to keep it dressed up attractively the summer thru. We also had inexpensive green glassware (I dare not say "crystal"), that fitted in charmingly with our color scheme. When lemonade and sandwiches or wee cakes were served and you were fortunate enough to have found a cozy chair, you felt that there was no place you would rather be than right there.

Four Important Accessories

Continued from page 10

room cannot be pictured with mere words.

Now every woman loves screens. Some are deterred from having them by reason of their cost. Paper screens, however, are within the reach of almost every one. Of course, one must have a framework, and in these days of high labor cost it may be cheaper to buy a readymade frame than to hire one made; but if there is a handy man about the house, one can be had for the cost of the strips of lumber and hinges. (Be sure to get counter-sunk hinges.)

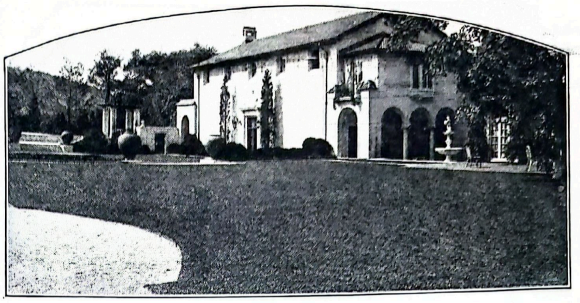
The technique of covering the frame is simple enough. Tack on unbleached muslin, over which paste a second covering of lining paper. When this is thoroly dry apply the decorative paper, following that process, when the paste is dry, by a coating of size. To insure neatness of finish, the edges should be bound with border paper.

If the colorings and pattern of the paper seem too obtrusive they can be softened and toned down to a lovely antique mellowness by a coat of gloss varnish and two or three coats of shellac. Your wall paper screen will then be comparable in appearance to the screens that are so expensive.

Toile de Jouy patterns in wall paper are always charming and full of period character. And there are designs of Chinese inspiration that are delightful. The modern decorative motif also, which now is to be found in wall paper, makes new types of design available for the homemaker.

My work has called me into many hundreds of homes, but in only a few of them have I found the clock playing its rightful part as an element in both decoration and home atmosphere. Probably the most picturesque clock of all is the floor clock, known as the "Grandfather" clock—the one that "stood on the stairs" in the poems. Such a characterful piece of furniture in living room, dining room, bedroom or hall contributes definitely to its atmosphere of homelikeness, besides being highly decorative in appearance—and nothing quite so well fits into a narrow wall space or dresses up an otherwise empty corner as a tall floor clock. They are now made in small sizes for use in small apartments, and in still smaller designs and decorated in charming colors for bedroom use.

The banjo clock is another clock of



Two Kinds of "Self-Sharpening" Mower Blades

"Calling lawn mower blades 'self-sharpening' is one thing," says the Old Gardener, "but building them so they'll *actually* keep themselves sharp is something else again."

To be sure of getting blades that are made of the finest quality crucible tool steel, oil-hardened and water-tempered, look for the STAYTITE Handle which identifies all PENNSYLVANIA Quality Mowers.

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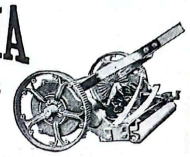
Write for interesting, authoritative booklet—"Proper Care of the Lawn."



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Hard water turns soap into scum! Use Softo—have bubbling suds in any water—with less soap! Softo makes laundry easier—dishes brighter—baths more pleasant! Saves hands!

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Don't let sparrows drive away the song birds, spread disease among your poultry and spoil your gardens. **Send Today** for an Ever-Set Trap and catch an average of 20 sparrows every day. The new low price direct to you is $4.75 pre-paid. Costs nothing to operate. Never fails to work. Lasts indefinitely. Your money back if you are not satisfied. More information mailed upon request.

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Kills Dandelions Easily

And Plantain Too! Marvelous New Treatment Does Not Kill the Grass.

Simple and easy to use Quick and permanent results. Non-poisonous. Just sprinkle your yard, and PRESTO—Dandelions and Plantain wither up and die Rid your lawn once and for all of these obnoxious pests. Tell your neighbors about this scientific preparation, and club together getting special prices on quantity lots Liberal supply, 20 pounds, enough for average city lawn, only $2 98 Have beautiful green grass Satisfaction guaranteed or your money back. *Order at once*

Mission Laboratories
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A New and Unique Service *For* Garden Clubs and Study Groups

Better Homes and Gardens Offers to Cooperate With All Garden Clubs and Similar Organizations in Providing Them With a Definite Program of Activities.

It is estimated that there are 10,000 Garden Clubs in the United States, and new ones are being organized every day. Folks are taking a more active interest than ever before in beautifying their own homes and gardens, and the community in which they live.

Better Homes and Gardens has received many requests from Garden Clubs to furnish them with a definite program for their members to carry out. At first it seemed hopeless to provide something that would be suitable for Clubs of all sizes and locations. But a plan was finally worked out, tested by several Clubs, and it has proven remarkably successful.

Now this plan is available for all organizations interested in flowers, landscaping and similar subjects. Return the coupon below today, and we will send you at once complete information about this new and unique service which Better Homes and Gardens is prepared to offer you.

If you are planning to start a Garden Club, we will gladly help you organize, and the program can be furnished later.

BETTER HOMES and GARDENS
Des Moines, Iowa

Gentlemen:—Please send me, promptly, information about your program plan for Garden Clubs and similar organizations. (If you wish information about organizing a Garden Club, check here .)

My Name.....

Street Address..... P. O.....

State.....Name of Organization.....

distinction, beauty and historic interest. But, like the grandfather clock, its merits deserve wider recognition. This type is another which has in it the saving touch of individuality. Then, too, there are several types of mantel clocks, and to my mind one of the really legitimate mantel-shelf ornaments is a clock.

Color, which is the mode in home decoration as well as in dress, automobiles and architecture, is the new note in clocks, so that now your time-piece may be an active factor in establishing your color scheme. Many of the designs are truly quite wonderful. Some are decorated by inlays as well as by paint.

Every room needs a clock—and for every room there is one best place for a clock and one best clock for the place. When buying, then, why not select *the* clock rather than *a* clock: the one most suitable and effective for the room and for the place in the room?

WINDOW shades, in times past, have sometimes been regarded as more in the nature of liabilities than assets, considered decoratively. But that is because they were neglected. Not enough thought was expended on them. About the only effort that was made to work them into the decorative scheme was to have the color harmonize with the walls, a negative quality, rather than positive.

But now somebody has been "giving a thought" to the window shade—to ways and means for rendering it more decorative, a component part of the decorative scheme of the room. Figure 4 illustrates a charming window treatment in which the shade has been made an integral part of the scheme (and an effective addition also) merely by cleverly incorporating the drapery fabric into the decoration of the shade. This treatment can be successfully handled by home-makers, being quite simple and straightforward in construction.

The cretonne used is peculiarly adapted to this special treatment because of the broad bands in the design. A band about six or seven inches wide was cut out and pasted onto the shade, just above the shade stick. A second shade stick was inserted just above the fabric banding to serve as a sort of frame for the fabric, thereby setting off the decorative band and keeping it from wrinkling. The fringe tassel, matching the black background of the drapery material, adds the finishing touch of color and form. Observe that the tassel is attached to the shade stick, as it should be.

The valance in Figure 4 is made by pasting the fabric onto the face of a wooden valance board. This board has a three-inch "return" at each end, which gives it the appearance of a long narrow box open on one side.

Here then, is a new means for making the window treatment more satisfying, for conveying color and pattern into the room and last but not least for putting a new touch of individuality into the ensemble.

No More Leaking Faucets

Gone are the days of hissing, leaking faucets. Hays faucets are better made. Better materials, better workmanship, carefully machined parts. A Hays faucet lasts for years.

And besides Hays faucets are newly designed and have the latest ideas of convenience. Kitchen faucet has single swinging spout with Hays Safety Strainer, exclusive with Hays.

Basin faucets have soap dish and drinking glass receptacle. Finished either in nickel or the new chromium that will not tarnish, lasts forever and is so easy to keep clean.

Send for illustrated folder showing our beautiful and durable faucets.

WHEN YOUR FAUCETS ARE MARKED HAYS YOU CAN FIND NONE BETTER

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With the sunshine of May grass cutting begins in earnest. Moto-Mower will mow your lawn quickly, easily, economically. A simple twist of the handle-grips turns it to right or left, on its own power. Does splendid work, cuts clean and evenly, close to trees and curbs. Return the coupon for our latest catalog.

The Moto-Mower Co.,
3250 E. Woodbridge St.,
Detroit, Mich.

Please send catalogue to:

Name.....

Address.....

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Summer Care of Tulips

Continued from page 108

soil is good and they are properly cared for they will often do well for four or five years in the same place. But when they are seen to be failing either in the size of the leaves and blossoms, or in the number of blooms, they should be lifted and handled as described and not planted again in the same place. When their tops begin to look unsightly they may be hidden by placing pot plants among them for summer decoration. With florists, geraniums are very popular for this purpose, because these plants, being tender, cannot be put out in the open ground until after the middle of May in southern New York or central New England.

WHETHER stored or newly purchased, tulip bulbs should be planted in the autumn, preferably in late September or early October, because they will thus have plenty of time to develop roots before winter sets in. They need be buried only about four times their diameter. For best results they should be covered at the approach of winter with four to six inches of strawy litter from the stable. In the spring as soon as such trees as maple are coming into flower this mulch must be removed. But if earlier blossoming bulbs, such as scillas, snowdrops, crocuses and squills are in the same bed with them the mulch should be removed when the earliest trees such as willow are opening their catkins, that is two or three weeks earlier.

Many people make the mistake of keeping tulip bulbs out of the ground over winter. Such bulbs, planted in the spring, never do as well as fall-planted bulbs, because they do not have time to produce roots before hot weather arrives. Thus they do not develop satisfactory flowers. Never hesitate to plant them even after the ground has been frozen. One year a shipment of choice varieties I had ordered direct from Holland arrived so late that they could not be planted until the second week in January. The lake opposite my house was frozen and people were skating upon it! Yet the following spring practically every bulb bloomed well.

For Better Housekeeping

Continued from page 42

gallons of liquid, generating over 20 gallons of foam, which forms a veritable "wet blanket" over a fire. The weight is 42 pounds (charged), but no pumping is necessary; simply invert the tank and direct the stream with the hose and nozzle to a distance of 30 to 40 feet if necessary. A 1¼-gallon size is also available. This is inverted for use, but must be held in the arms until discharged.

At lower right is another small but decidedly important piece of equipment —a sharp, saw-toothed knife and a sturdy little bread board smartly edged in deep blue. If you believe in letting your head save your heels you will keep these two pieces beside your bread box.

STOP this fuss and bother

Window suspensions can cause a lot of trouble—for every time a sash weight breaks loose, it means extra expense and the muss and fuss of tearing apart window casings.

Put in ACCO No. 8 Sash Chain

It is made of Copper Bearing Steel —the copper content being a protection against corrosion. Strong and durable. Cannot be cut by sharp edges of pulleys. Does not fray or weaken. Finished coppered or galvanized and can be painted to match color of window trim.

Sold by Good Hardware Stores

You can buy ACCO No. 8 Sash Chain with attachments for fastening, in cartons containing just enough for one window — or you can buy a bag of 100 feet. *ACCO No. 8 Sash Chain operates perfectly over the regular pulleys—no change in your window construction is necessary.*

Send for this interesting booklet about the windows of your home. Fill out the coupon and it will be mailed you free.

AMERICAN CHAIN COMPANY, Inc.
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Send me your booklet entitled "The Windows of Your Home."

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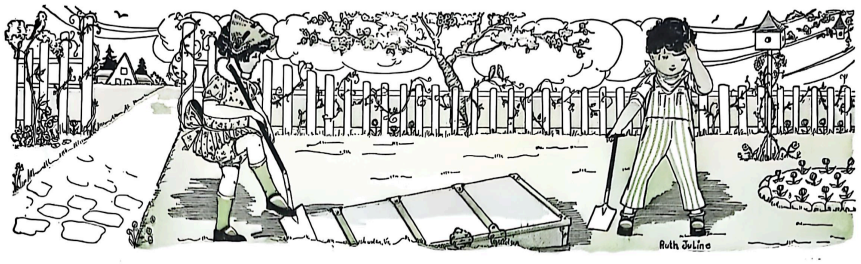


The Children's Pleasure Chest

A Page for Boys and Girls

You Should See My Playhouse

I WISH you knew my dad. He and I are great chums. One day Dad said, "Elizabeth, the children like your swing so well, why can't we get something else for them to like?"

"The very thing," I said. So it was settled. Dad got out *Better Homes and Gardens* and a few other magazines. Suddenly he looked up with a smile and said, "This is responsible for my idea," and he showed me a little bungalow.

"Why, what can I have like that?" I cried.

"A playhouse," he answered, triumphantly.

Days passed. An old chicken coop in our back yard with four glass windows was swiftly reroofed, painted and whitewashed.

When we took charge, weren't we proud? A table, four chairs and pictures had been added. Here's the secret. All of the girls brought something like dishes, chairs or blankets.

Some orange boxes covered with an old curtain that originally hung between our library and living room, made a window seat. More orange boxes covered with old lace pillows, old sheets, etc., made excellent beds alongside the wall. Framed pictures and calendars were hung on the walls. The outside was still cuter. We brought cedars and wild flowers from the swamp and planted them. Now our playhouse is like a really, truly bungalow.—Elizabeth Lynch, Detroit, Michigan.

One of My Pleasures

HERE is something I find great pleasure in making, so I want to pass it on to you girls and boys.

It is a vase-holder to be made out of the round cartons that contain ice cream or cottage cheese. First we get a pattern of a rose or other design or draw something on the carton with pencil. Then we get our water colors, paint the designs and allow it to dry.

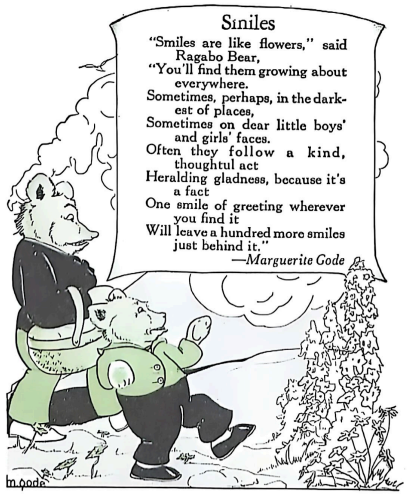
This is not water-proof so for the vase we use a tumbler or something in which to put the water, and put it inside of our vase-holder.

These holders may be used for other things if the lid is painted too.

These cartons are available in two sizes, one a pint size, the other a quart size; either may be used for the vase. For the quart size a peanut butter jar or an ice tea glass can be used.—Betty T. Kiesele, Quakertown, Pennsylvania.

When I Tried to Be a Carpenter

LAST spring my father and mother finished building a new home. There were lots of things needed to make it complete, and father had to be the carpenter. I watched him build a coal bin, and a closet to keep canned fruit in, and then he built a work bench where he kept all his tools. And then I tried to be a carpenter. So one morning I went down in the cellar to make a doorstop. I took the ends out of a small grocery box and cut it out in the shape of a puppy dog. Then I nailed a little piece of board onto it, shaved one end down thin, so it would slide under a door. It will hold a door wide open or half open when the windows are open and the wind is blowing. I painted the puppy dog black and the mouth, ears, and nose, white. Everybody thinks it so cute and Mother says it is useful.—Fred Henry Hendrickson, Lawrenceville, N. J.



My Clothes-pin Animals

I WONDER if other children would not like to make clothes-pin animals. They are made by drawing the bodies on heavy paper, cutting out and snapping on snap clothes-pins for legs. These clothes-pins make them stand alone. Children who cannot draw can cut animals from the papers and paste them on stiff card-board. I make mostly horses, because I can draw them best. It is fun to make all animals and play circus.—Mary Helen Boughton, Montpelier, North Dakota.

Musical Buttons

BILLY'S Daddy taught him a trick he used to try when he was a little boy. So when James and Richard came over to play one rainy afternoon, Billy tried it on them.

He found three large coat buttons with two holes each, and some strong cord. He gave one of the buttons and a piece of the cord to each of his friends. Each boy then threaded the cord thru the holes and tied the ends together so that there was a loop about a foot or more (*Look on the next page*

long on each side of the button. With one loop over the first finger of each hand, they twirled the cords and buttons to wind up the cords. Then they alternately tightened and loosened the cords. This made the buttons whirl and buzz. When all the buttons were working, they seemed to sing different tunes. To make a real game of it, the boys all started at the same time and tried to see who could keep his button singing the longest. Of course, the boy whose button ran down first had to pay a forfeit.

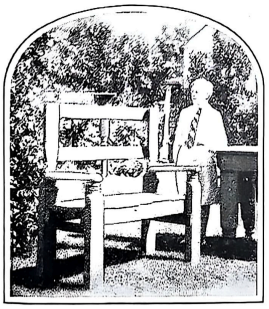
Ask your Daddy if he knew this trick when he was a boy.—A. M.

TO BOYS AND GIRLS

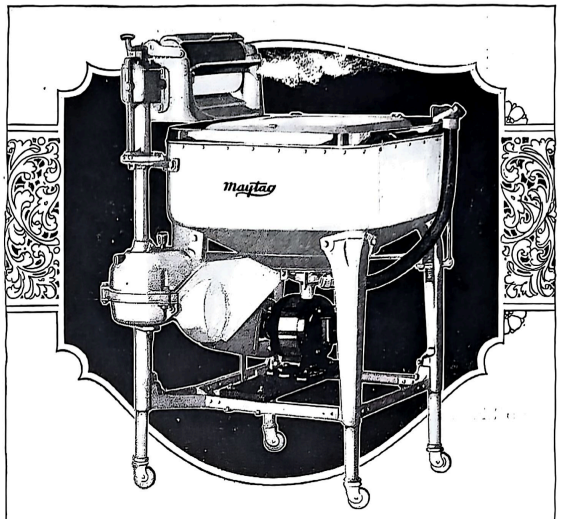
AREN'T these letters from boys and girls interesting? Tell us what you have made or done. Your letter may win a two-dollar prize just as Elizabeth's and Mary's and Robert's and Betty's and Fred's did. Address all letters to "The Children's Pleasure Chest," care of Better Homes and Gardens, Des Moines, Iowa.

How I Made Some Garden Furniture

MY father was remodeling our side porch. In doing so he threw away five posts and the flooring. One post I cut in half and used to make a birdbath. I then dug two holes about a foot and a half deep, put a post in each hole and poured cement around them which held them secure. I was not yet finished with my trapeze so I put in the holes, which I had already bored about four inches down from the top, an iron water pipe which formed the bar from post to post. It affords room for three boys to do stunts all at the same time. From the top and bottom of the remaining two posts I made legs for a table, using the old flooring for top and sides. For the back posts of the bench you see here I used the middle sections of the two posts used for the table sawed lengthwise. For the front legs and arms I used the bottom of the birdbath post sawed lengthwise. The seat and back cross sections were made from the old flooring. I did this all myself except when I called my mother to hold the post when assembling. I painted all woodwork grass green.—Robert W. Ball, Elmira, N. Y.



Some of Robert's garden furniture



New and Greater Triumphs for the Maytag

UNPRECEDENTED standards of washing speed, convenience and thoroughness have been set by the New Maytag Washer. As fast as far-seeing housewives encourage Maytag demonstrations, the Maytag finds new and permanent homes. The rate is over 1400 a day—outstepping all former washer sales, even the Maytag's own world record.

You should see how much easier the clothes are put through the New Soft Roller Water Remover with the Automatic Feed Board; how buttons are spared, how thoroughly and evenly it removes the surplus soap and water from every part of the clothes.

You should experience the convenience of the life-lasting, heat-retaining, cast-aluminum tub, and the thorough but gentle washing action that does an average washing in an hour or so—washes everything beautifully clean without hand-rubbing anything.

The New Maytag offers you an undaunted challenge to washday. Phone for one. Try it. There's no cost, no obligation. If it doesn't sell itself, don't keep it.

THE MAYTAG COMPANY, *Newton, Iowa*
Founded 1894

A postcard request brings an interesting booklet—"Better Methods of Home Laundering."

Maytag
Aluminum Washer

My windows too, were draughty~ *before I tried* Tac-Ezy"

"Yes indeed! Don't I know about draughty windows and dust-covered drapes! And the children were always catching cold on the chilly floors. How John complained about those awful coal bills! Well, I've fixed it all now—I put on Tac-Ezy Metal Weatherstrips, myself —why don't you do it, too?"

Don't Wait for Winter
—Do It Now!

This is the best time to put on Tac Ezy—now when opening doors and windows wont chill the house. You'll find it so easy to put on! It's made of heavy spring bronze, with holes punched clear through, all ready to use. Copperized tacks furnished, and simple directions are provided. You just snip off the right lengths, and tack it on!

Most live hardware stores sell and recommend Tac-Ezy Weatherstrip. If your's doesn't we'll supply you direct; $1.30 for ordinary windows; $1.80 for the average door. State width and height of doors and windows. Send Money Order or Check.

GENERAL WEATHERSTRIP CO.
5102 Penrose St., St. Louis, Mo.

TRADE MARK
Tac-Ezy
Metal Weatherstrip for Doors & Windows

Dreer's ROSES

Our Special Rose catalog contains cultural articles by experts on the growing of modern Roses. Fully illustrated, with numerous color plates. Write for it and for our

1928 Garden Book

which lists all worth-while Seeds, Plants and Bulbs, with directions for getting the best results with them.

Either or both free if you mention Better Homes and Gardens

HENRY A. DREER
1306 Spring Garden St.
PHILADELPHIA, PA.

Landscaping the Hillside Lot

Continued from page 21

a selection of finest rock plants, including yellow alyssums, varied rock pinks, rock roses, different kinds of thyme, and achillea, while small conifers, and mixed heathers and azaleas were used with typical effect at the head of the rock walls. The planting around the front of the semi-English style house consists of evergreen shrub such as thyme, laurel, pyracantha, Japanese honeysuckle, daphne and Mexican orange, and the sides of the rather large house were bordered with English laurel, aucubas, forsythias, spireas and similar larger varieties with interplanting of different kinds of barberries, and a selected collection of perennials.

THRU a technical error the garage had been placed directly at the main entrance to the grounds, so to overcome the unsightly aspect of its rearing into view too prominently a group of climbers reaching over the roof was planted around it, and the doors and side walls were painted a camouflage color to blend with the nearest surroundings.

The landscape gardening of a 100-foot wide and 125-foot deep hillside lot on which stands a red roofed white stucco semi-English style house throws a new light on hillside treatments, in that a fifty-foot strip of naturally level land lies at the top of this site which then drops in a sheer jump-off down the hill.

The lower part of the lot covering a steep portion of the hillside could fittingly receive but one kind of treatment—that being the ever versatile rock garden, merging from a natural wood growth left intact at the base of the hill, where the addition of a few wild flowers, bulbs and ferns converted it into a delightful bit of native enchantment.

Due to its spacious level upper grounds, there was more opportunity to bring true English atmosphere into the garden than one usually finds in hillside lots, and the lack of walking space around the rear of the house was overcome by utilizing the dirt excavated from the basement to build a terrace bordering its three sides. A gently sloping five-foot embankment between these terraces and the main lawn was seeded with grass, and decorated with a very simple rockwork, around a little flight of connecting rock steps.

Into this typical English treatment was injected a bit of Alpine atmosphere in the form of an informal lily pond set into the lawn at the left side of the house. Bordered with a simple rock treatment to blend with the cliff rockery at the rear a quaint rustic planting featured several varieties of iris, yuccas, red hot poker and cutleaf rhubarb, amongst which three little red coated dwarfs, two standing and one lying flat on his stomach, do their almighty best to brighten the color of the landscape.

Perhaps one of the most decorative features of this garden is its two and a half foot wide concrete stepping stone walk that leads from the main entrance to the garage, and again all around the residence, forming a most interesting pattern in the velvety lawn that overgrows its edges.

The exterior of the house has been treated in true English style, the narrow

6 Health Toys in ONE

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border of flowering shrubs and perennials that surrounds it having been specially selected from dwarf varieties so that the interesting line of a narrow red brick border around the base of the house would not be concealed from view. A wide front window is decorated with a flower box, while the lawn has been left perfectly plain except for one or two single specimen shrubs at the corner and a small rockery concealing a slight embankment at the side of the adjacent garage.

A rockery planting where persists a native love for Alpine flowers shows a preponderance of the beloved edelweiss, rock pinks, rock roses, various species of thyme, rare varieties of saxifragas, and a host of smaller rock plants that give the most charming combinations of pure, soft color to the steep slope at the rear.

In each of these three different hillside treatments there is a consistent adherence to the underlying principle that the lawn must be kept free of shrubs and imported trees, exceptions permitted, however, for a bit of wanted shade at a corner, or in front of a kitchen window, or perhaps to cut off the unpleasant view of a neighbor's garage. Under no conditions, however, is the hillside lot, or any other kind of lot stripped of native trees, which according to the principles of modern landscape architecture are preserved with utmost love and care regardless of the labor involved in cleaning around them.

The California Garden In May

ALL kinds of annuals and perennials may be sown now. If possible to procure plants from the nurseries, it pays to do so, except where large quantities are required or where special facilities are available. (Have ground well pulverized, sow thinly, large seeds deep, fine seeds shallow).

Get rid of the weeds right now before they mature and seed themselves. Keep the ground cultivated or mulched to retain moisture. Overflow irrigation should not be used where the ground is well drained or porous; use ordinary garden sprinklers. Green aphis on the new shoots can be washed off with the hose. Slugs and snails are active now; get rid of them by broadcasting slack lime over the whole garden after dark, or by placing pieces of boards in the walks between the beds all over the garden; the slugs can be gathered from under the boards in the morning.

Whitewash the glass on greenhouse, ventilate and water freely. Transplant seedlings and rooted cuttings in time. Pot and repot anything else in need, except plants slow to bloom. Keep them potbound until flowers appear. All kinds of outdoor plants not easy to start in the open may be sown under glass. If you clear your greenhouse this time of the year, you may utilize same during the summer by planting now tomatoes, cucumbers, melons, beans, etc.—Subscriber.

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"It's Mine"

"THEY" tried to dissuade us from buying a lot: and we bought two, on the installment plan—two dollars a week on each lot. The lots were sold for one thousand dollars after we'd paid for them, and we netted a profit of two hundred dollars on the investment. We netted another profit—the profit which comes from systematic saving.

"They," we learned, had not saved one-half of what we did in the length of time it took us to pay for those two lots.

We decided to buy another lot in a better section of the town. "They" said we were foolish. But we bought the lot. "They," we know, have not a square foot of land they can call their own.

We decided to build a home of our own—a cottage. Again "they" warned us.

"No sooner will you get your cottage completed than you may get out of work. And why build a cottage? Why not build a two-family house and make your tenant pay mortgage interest and taxes? You might swing a two-family place, but——"

However, we ventured to erect the cottage on the last lot we bought. We have it now: but "they" have nothing but a small bank account.

You know who "they" are. They figure all values in percents, in dollars, not in what the dollars will buy. Is satisfaction nothing? Is a feeling of security of no value? Is the stimulus "to have and to hold" of no actual value? Is there no sense of power and gratification in the expression, "It's mine! I worked for it: I earned it, and I've got it!"

They used to laugh at my evident appreciation of the slogan, "Own your own home." They have visited mine, and tho it may be wrong to exult I have taken some degree of satisfaction in noting their envious glances.

But they got their first chuckle, for, true to their prediction, six months after we built our home I was forced out of my job, and they had the opportunity of saying, "I told you so."

Yet I returned their chuckles.

"There's a mortgage on the little home, I know. There are taxes to be met. Nevertheless, I'm going to take a six months' vacation and grade the back of my lot. I'll meet my bills somehow."

And I did just what I said I was going to do; and once more "they" got a shock.

Since building my cottage the value of land and property in my section has gone up. Another shock to them.

MY big regret is that I didn't undertake to own my own home earlier in my married life. I shall have been married just twenty-five years in June, and for twenty years we paid rent, aggregating some eight thousand dollars. I shall always regret that eight thousand. What a nice little home it would have built. And what uncertainty hung over our heads at all times. On three different occasions the house in which we lived was put up for sale, and each time a sale was made the rent was raised. The climax came when our landlady stated she wanted our place for her son. Her son got it—and we got our present home.

Now it isn't a pretentious sort of home. It is a six-room cottage, painted white, and with a green roof; and it stands back from the road about twenty feet on an

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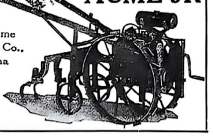

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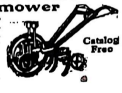

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embankment. There are three rooms downstairs—the living room, 23x12 feet, running across the front of the cottage, a dining room, 13x12 feet, separated from the living room by an archway, the supports of the archway having built-in bookcases, and a kitchen 12x12 feet. There is an open fireplace in the living room, which my wife and I decided upon after some discussion. We've never regretted the additional cost of that fireplace. Two or three evenings passed before a fire of blazing logs has proved its value in comfort and satisfaction.

UPSTAIRS are three rooms and a tiled bathroom. Two of the rooms are bedrooms for my wife and myself and our two daughters. The third room is the one in which I write this short story of a rent-payer who became a satisfied home-owner.

There is a glamor about our living room when, on a chilly evening we set some hemlock logs to burning in the fireplace, put out the electric lights, and watch the flames leap up the chimney and the shadows dance on the walls. What a glow of satisfaction pervades us when guests exclaim with a sigh:

"What a beautiful home you have! I wish we had such a place!"

And yet along with the sense of satisfaction there comes a sense of disgust with these people. "They" have as much money as we had when we built, but they have a wrong idea of values, or they lack the courage to venture, or they have desires stronger than the one to own their own home. Why, then, should they be envious?

It is the same in regard to our garden at the back of the house, where we raise dahlias and roses and phlox and marigolds, bachelor buttons and gladiolus, sunflowers and hollyhocks and foxgloves and asters and petunias. "They," in their rented flats, have nothing like it. My good wife is very generous with our flowers, and our friends bury their noses in the generous bouquets—and express their regrets that they cannot have such a garden.

But those folks have other things that we have gone without—until now. They bought those other things first: we bought our home first and now are getting the other things. And, best of all, by systematic saving we have managed to bank enough money to more than pay off the mortgage on our little home. Indeed our bank interest is sufficient to pay both mortgage interest and taxes.

"If you have enough to pay off the mortgage, why don't you pay it off? Why pay someone six percent when you can relieve yourself of this burden?" That's what "they" say.

And, somehow or another I can't get them to see that the difference between six percent and four percent is only two percent, and that that two percent represents to me the satisfaction of having that money immediately available should circumstances arise which would demand its use. I am not dollar hungry: I'm hungry only for those things which dollars will buy; and my biggest hunger is appeased. I own my own home.

"How about interest on your investment? How about interest on this and on that?" "they" ask.

The interest is summed up in the pride of ownership, in a sense of security which comes to the man who, in regard to his home, can express his satisfaction with the words at the head of this article, "It's mine!"—Fred A. Barrow.

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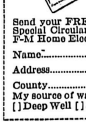

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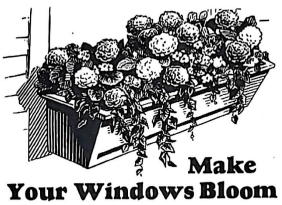

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Spearmint Is an Asset

THE cool and fragrant mint that grows so luxuriantly and abundantly along many streams is a real boon to the housewife. While its natural habitat is near the water, it does very well in almost any location, and every garden should have a bed of it. It will appreciate the coolest, dampest corner where so many things refuse to grow. The city dweller may grow a fine clump under the faucet at the side or back of the house. A few sprigs from the market if placed in a glass of water will root in a few days. Transfer to the garden when well rooted and keep moist until well established.

Innumerable are the ways in which mint may be used. A little sprig boiled with new peas gives a pleasing flavor. Chopped fine and sprinkled over veal salad it imparts a piquant flavor, as well as a garnish. Try a few chopped leaves in the deviled eggs, or deviled ham sandwiches. When making fruit salads or cocktails, add a little chopped mint just before serving. It may be used the same way with grapefruit or orange. A green and gold luncheon dessert may be made by peeling oranges and cutting them into small bits. Sprinkle with powdered sugar and chopped mint leaves. Or you may add grapefruit or pineapple juice and use as a cocktail.

A little sprig or a few leaves (bruised) added to a glass of iced tea, lemonade, or almost any cool fruit drink seems to enhance the coolness and flavor, and it plays the "leading part" in many delectable drinks.

Mint vinegar adds a delightful flavor to salad dressings and fish sauces. To make it chop enough mint leaves to fill loosely a quart glass jar and cover with cold vinegar. Let stand two weeks then strain off and bottle. The shredded leaves may be used in salads. — Mina Lowman.

A Naturalistic Rock Garden

Continued from page 66

walk behind the house gives an opportunity for more intimate views of the rose garden with glimpses of the pond and rocky hillside across the valley.

A little flagstone walk leads directly from the rose garden thru the perennials at the side of the house to the little front lawn whence the house may be entered as the circuit of the grounds is completed.

Foundation shrub plantings about house and garage and border plantings along the lot lines give the final inclusive touch to the scene.

Thus an irregular rough lot may be capitalized and made more attractive, more interesting and certainly more original and individual in its development. Let's not forget the possibilities of such sites when buying a lot for a home.

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Not beautiful, but an insurance policy for the future beauty of delicate evergreen seedlings is this cage-like structure

A Good Frame for Valuable Seedlings

EXPENSIVE seed of tree shrubs and evergreens often thrive best when planted outdoors in May protected and shaded by lath.

Screens of lath overhead serve better than trees for cutting off the direct rays of the sun since they have no roots as trees have to rob the soil. It is also important to shade difficult subjects from the side. Otherwise as the sun seldom stands overhead, you will find it glaring too intensely and too long into the edges of the bed.

There are other reasons for a complete enclosure of lath. One puppy burying one bone can ruin a hundred seedlings in one minute Cats, too, like to dig in the prepared soil. And the depredations of even a few chickens may be truly heartbreaking. Rabbits, especially in winter, amuse themselves by biting off young evergreens and shade trees at the root.

Make your frame of one-inch by two-inch lumber nailed together into a framework on which to fasten the lath. Your bed should be exactly as wide as a lath is long, and one or more times that length. By such dimensions you save sawing.

Plastering laths are cheap and easily obtainable in bundles of fifty or a hundred.

Cut the uprights about two feet long, nail the four top rails at the upper end and the four ground rails about six inches from the bottom. The six-inch end will give a grip in the ground to steady your frame.

Set this framework in a spot sheltered from the wind but not too near a tree. Dig out the soil to a depth of one foot at least. Line the hole with galvanized wire (small mesh) which may be nailed to the ground rail all around. Then fill with a pulverized mixture of light soil or compost, well-rotted manure, and granulated peat moss. For best drainage fill to the top of the ground rail.

Nail lath along the side as shown in the illustration. The width of a lath between makes about the proper spacing.

Lastly make a square, removable screen by simply nailing laths together at right angles. The width of a lath between will give 75 percent shade if used in both directions.

In such a frame you can grow almost any outdoor plant or tree. The seed should be watered immediately after planting, using a solution of semesan or uspulun, and this watering should be repeated whenever damping off of the seedlings is observed.

To mulch in winter, simply throw in coarse straw or litter. It will not blow away.—G. G. Nearing, Delaware.

Index to Advertisers

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Across the Editor's Desk

WE are congratulating ourselves this month on securing an estimate of the average American home from the point of view of one of the greatest engineers in the world, Charles F. Kettering. His position as vice president of General Motors and his various achievements in the engineering field cause him to stand out pre-eminent in his field.

Perhaps some will disagree with some of his views, but no one can fail to find stimulating thought in all of them.

We present his appraisal of the average house in the form of the article, "An Engineer Looks at a House," one of a series, the first of which was "A Psychologist Looks at a House," in the February issue. From time to time we will present the views of other specialists, believing that each will have thoughts that are useful to the home-builder.

A WOMAN in one of the eastern states writes us a friendly little note in which occurs this sentence:

"I have two boys, one ten and the other five, and we have to manage on $15 a week, but I can just sit down with *Better Homes and Gardens* and dream and forget my worries; and then we have a glorious flower garden, and that is life to me." She says she would rather do without enough to eat than to do without this magazine.

After going thru the toiling and moiling incident to the editing of one of these large issues of *Better Homes and Gardens*, it is pleasant to receive a letter of that kind. We hope that this mother's dream will come true. At least the dream of a garden can be realized, for the garden does not want money nearly so much as it wants tender care and the ministry of those very dreams of which she speaks.

A GOOD many of our readers are contributors to this magazine. Our incoming grist of manuscripts is large, but, strange to say, we are always hungry for more, even tho we have to return nine out of ten of the offerings. The reason is that so many contributors do not stop, before writing, and think what we want.

We want, first of all, information about how to make a home and keep a garden. The inspirational phase usually comes with the simple telling of the story. A close study of the magazine will usually indicate what we wish to publish.

THESE are the days when the home gardener delights in chatting with his neighbor over the back fence. The weather is not yet hot enough to make outdoor work a real task. One can listen to the birds, rake up the last bits of leaves and trash and putter around with fences and hedges, and talk to the neighbor at the same time.

All the articles in this magazine, from the engineer's opinion of an average house to Mrs. Keyes' visit with Miss Sherwin, are submitted to our readers with the hope that they may have the flavor of a friendly chat over the back fence. We are not trying to preach or tell folks what they ought or ought not to do, but to exchange information and let each one of the neighbors put one foot on the lower rail of the fence, take a squint at the robin perching on the apple tree or hunting for a worm in the fresh soil, and tell what experience he has had, making a window box or lily pool or house, or in trying recipes or decoration schemes. And there are semi-sociological and economic and civic problems. The field is really prodigious, and we do not expect to run out of interesting subjects, any more than a genuine neighbor is likely to run out of subjects as he exchanges views and experiences.

BY the time this issue reaches you, the editors will have made an almost complete tour of the United States, one of them spending some time along the west coast, another traveling in the East, another in the south and central districts. One of the objects in view this year is to supply more of a nation-wide perspective of the task in hand. The magazine is national in scope and circulation, and we will always be glad to have our attention called to any sectional phase that may seem to have been neglected.

ONE of the interesting things about the first article in this issue is the fact that the pictures were all furnished by *Better Homes and Gardens* readers, and for the most part they attribute the inspiration for these projects to this magazine. Thus are seen some of the fruits of the lily pool campaign initiated by this magazine a few years ago.

A CALIFORNIA reader writes: "The wonderful articles both last month (February) and this month (March) by Gladys Denny Shultz and Mildred Weigley Wood, on child training and feeding are my reasons for mailing you a renewal of my subscription for one year. I hope you will continue to feature those two writers as their work is an inspiration to a young mother who is always on the lookout for short-cuts to better home-making and child training."

Indeed we do intend to continue to feature the work of these two writers and of others who have the same combination of sound training, excellent professional reputation, and practical experience in their own homes. It is significant of the editorial policy of *Better Homes and Gardens* that our regular contributors of home-making material are women who after first making names for themselves in educational and business circles, are now enjoying practical home experience with their own houses and husbands and children and guests. They are real people, you may be sure, and they are writing sincerely out of their experience and sympathetic observation. Sometime we may be able to introduce each of them to you personally in the magazine. Would you like to meet them?

Editor

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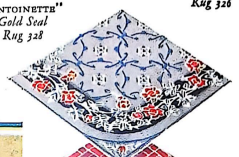

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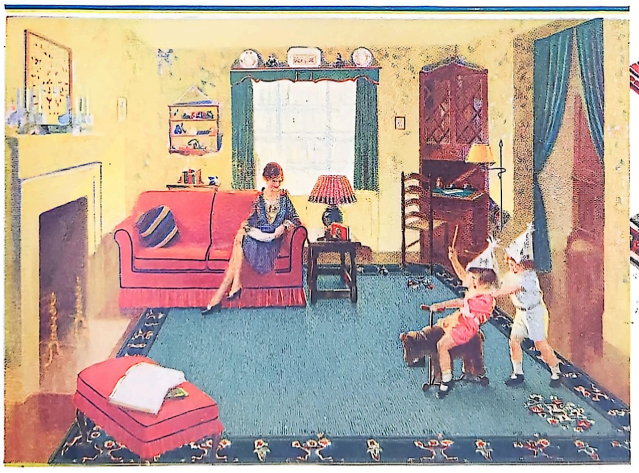

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